

551.482  
VOLU 3  
991:v.2  
.3



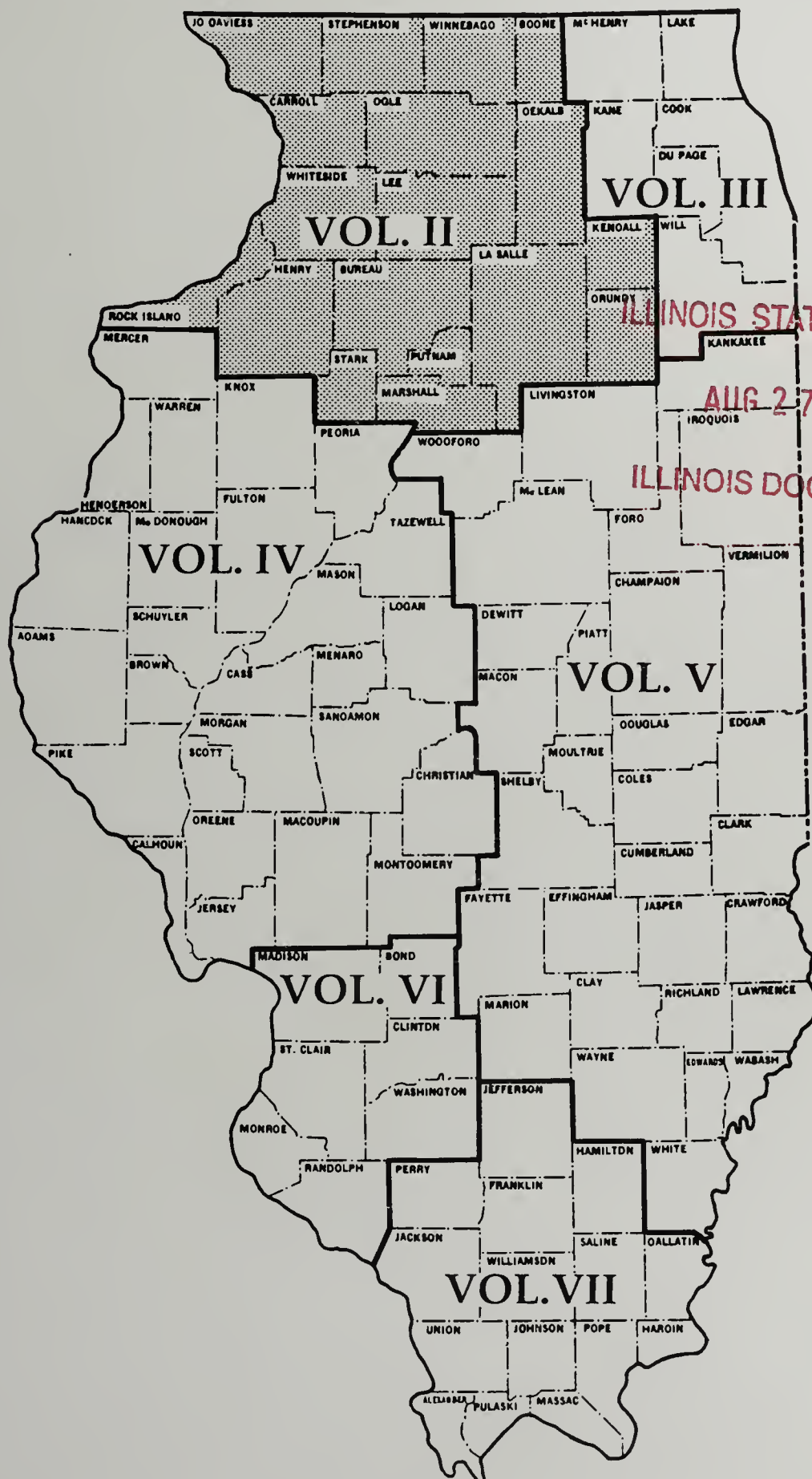
Illinois  
Environmental  
Protection Agency

Division of Water Pollution Control  
2200 Churchill Road  
P.O. Box 19276  
Springfield, Illinois 62794-9276

IEPA/WPC/92-110b

# Volunteer Lake Monitoring Program, 1991

*Volume II: Northwestern Illinois Region*





ILLINOIS VOLUNTEER LAKE MONITORING PROGRAM, 1991

VOLUME II

NORTHWESTERN ILLINOIS REGION

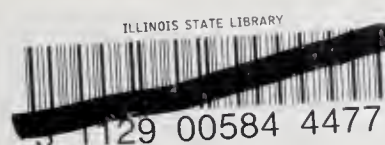
by

Amy J. Burns

Monitoring data collected by 27 volunteers

Lakes Program  
Division of Water Pollution Control  
Illinois Environmental Protection Agency  
2200 Churchill Road, P.O. Box 19276  
Springfield, Illinois 62794-9276

March, 1991





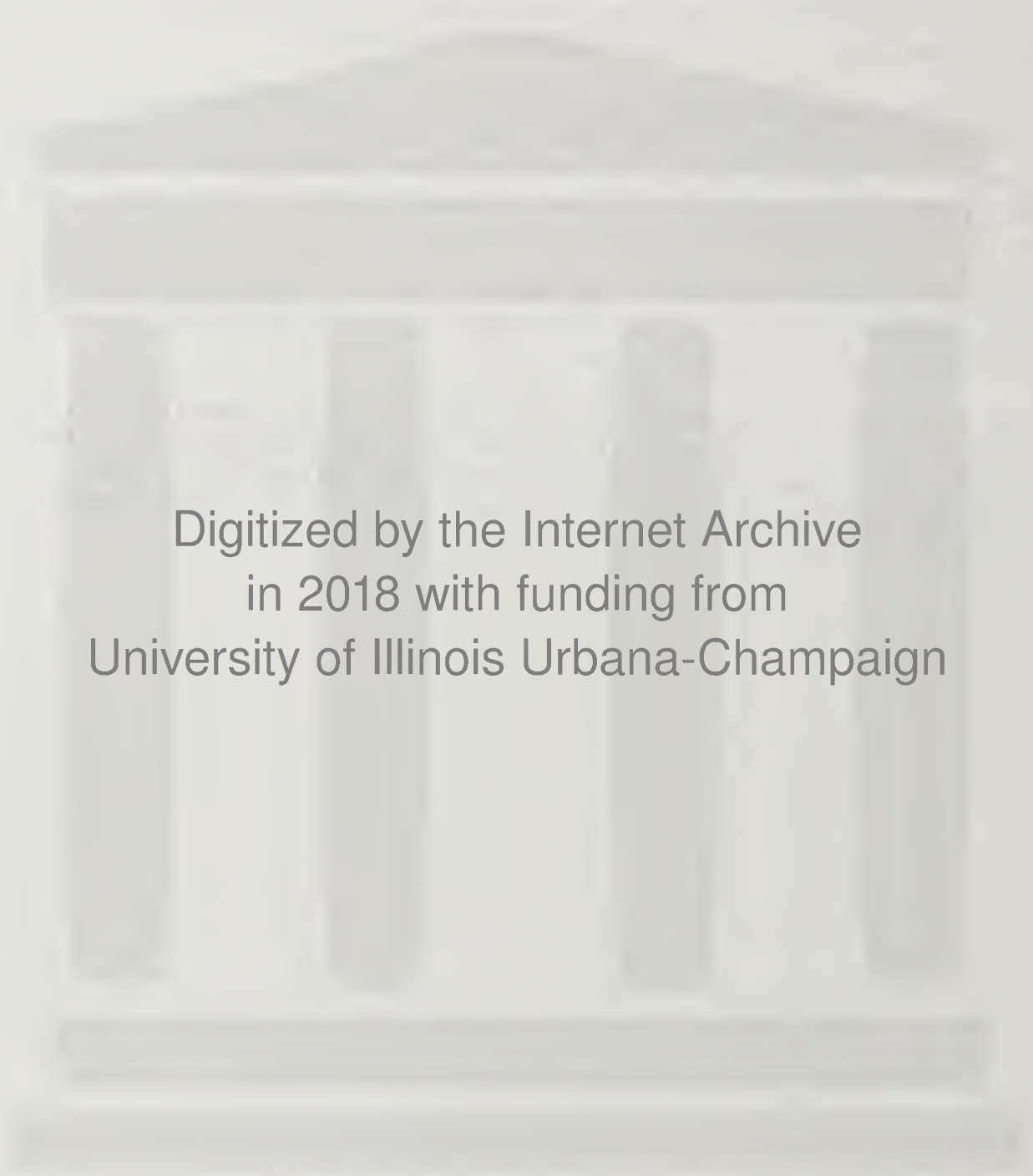
## ACKNOWLEDGEMENTS

The Volunteer Lake Monitoring Program represents the coordinated activities of many individuals, but first and foremost, is a product of the efforts of the volunteers. The cooperation and assistance of the following 1991 Northwestern Illinois volunteers is gratefully acknowledged: Frank P. Loftus, Kenneth Beach, Jan Gedgaud, John Maltbey, Joyce Grabrow, Robert Minnear, William Siegner, Don Dunlavy, Mike Murrin, Michael Dunbar, Ray Sarna, Bill Konczal, Neil Dahlstrand, Marge Avram, Jerry Avram, Art West, David Nolan, Bob Neubauer, Eric Neubauer, Stacy Neubauer, Tom Rohner, Ron Malon, Janet Watson, Robert Esser, Agnes Esser, Gale Park, and Mark McReynolds.

Illinois EPA's Lakes Program, Planning Section, Division of Water Pollution Control, under the direction of Gregg Good, was responsible for the original design and continued implementation of this program. Substantial assistance was provided by the Illinois EPA's Office of Community Relations supervised by Greg Michaud.

Program coordination was provided by Amy Burns for the Illinois EPA's Division of Water Pollution Control and J. William Hammel for the Office of Community Relations. Guidance was provided by Gregg Good.

Volunteers were trained by Amy Burns and the Illinois EPA Community Relations Office. Tabular and graphical outputs of VLMP data were obtained with the IBM-PC microcomputer using software developed by Jeff Mitzelfelt. Data management and preparation of report tables and graphics were performed by Beverly Albarracin and Amy Burns.



Digitized by the Internet Archive  
in 2018 with funding from  
University of Illinois Urbana-Champaign

<https://archive.org/details/volunteerlakemon1991unse>

## SECTION I: INTRODUCTION

The Illinois Environmental Protection Agency initiated the Volunteer Lake Monitoring Program (VLMP) in 1981 as a result of growing public interest in lakes and the need to expand the State's data base on lake water quality. The purpose of the VLMP is to involve volunteers with lake monitoring, thereby providing effective public education in lake ecology and management as well as a useful data base for site-specific and statewide lake quality assessment.

VLMP participants are trained to measure water transparency with a Secchi disc: an eight-inch round metal plate painted black and white in alternating quadrants that is attached to a calibrated rope. The disc is lowered into the water and the depth at which it disappears is recorded. This measurement, called the Secchi disc depth, is used to document changes in the transparency of the lake water. Typically, three sites are monitored in each lake twice per month from May through October.

The volunteer also records a series of field observations such as water color, suspended sediment and algae, aquatic weeds, and weather conditions. Recent lake management activities or other factors which could impact the lake also are documented.

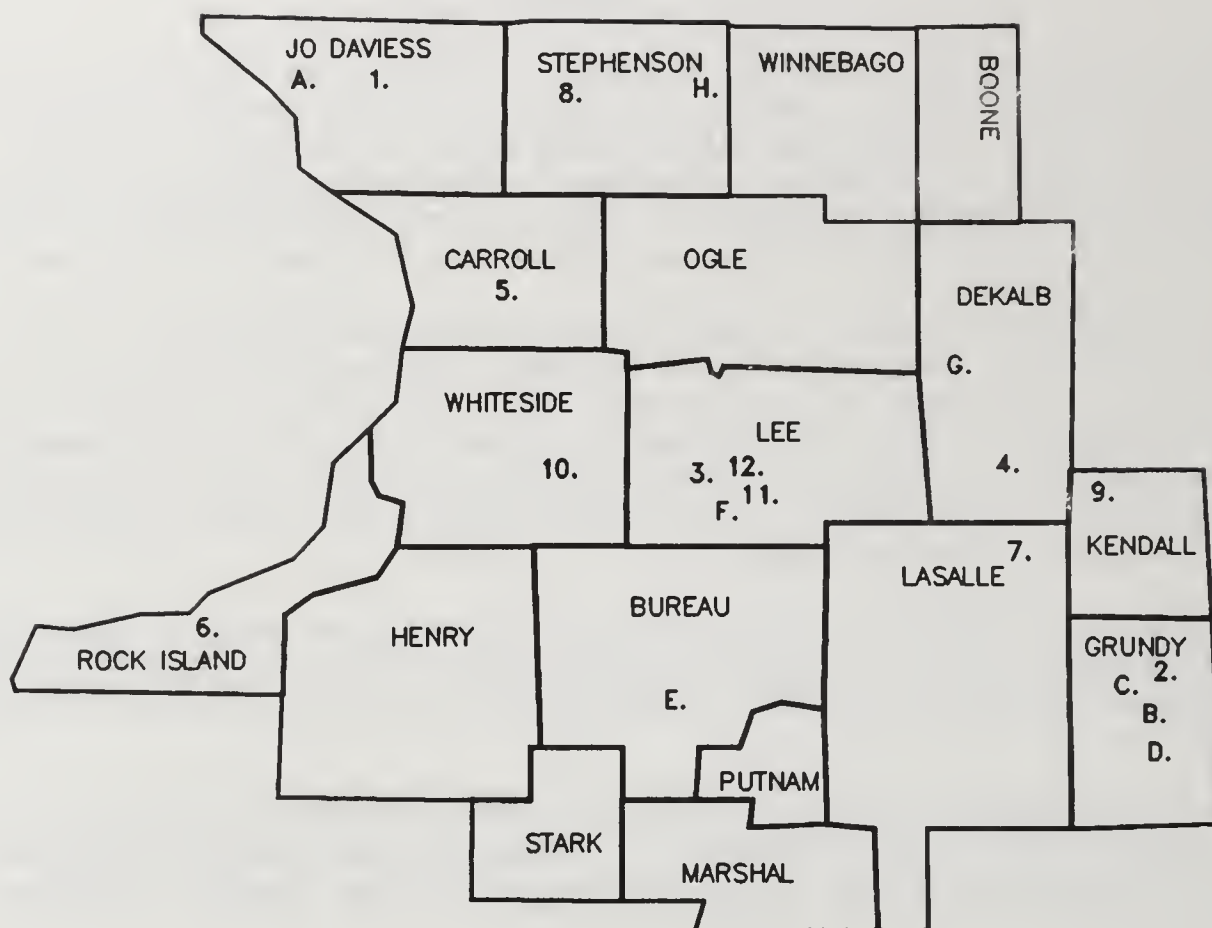
Additional water quality data is collected by volunteers on selected lakes to expand the lake water quality database. Parameters monitored include total and volatile suspended solids, nitrate+nitrite nitrogen, ammonia nitrogen, and total phosphorus.

This report is Volume II of the following series of seven reports summarizing the 1991 VLMP:

Volume I	Statewide Summary	Volume V	East-Central Illinois
Volume II	Northwestern Illinois	Volume VI	Southwestern Illinois
Volume III	Northeastern Illinois	Volume VII	Southern Illinois
Volume IV	West-Central Illinois		

Volume I (the Statewide Summary) provides information on 42 lakes throughout the State which were consistently monitored during 1991. The Statewide Summary presents a detailed discussion of the monitoring methodology and data analyses. Also included are tables and figures which present lake characteristics, lake locations, comparisons of transparency data for lakes participating in the 1990 VLMP, transparency trend analyses, a listing of volunteers, and other information relating to the 1990 VLMP.

This Regional Report volume is a compilation of lake monitoring data for 20 lakes in the Northwestern Illinois region. A regional lake location map is shown in Figure 1 and a ranking of lakes by average transparency in Figure 2 of this section. Section II contains lake data for those VLMP lakes that were monitored during four or more semi-monthly sampling periods in the 1991 season. Data collected under IEPA's Ambient Lake Monitoring Program in 1991 is also included where available.



Lakes sampled 9 or more periods

1. Apple Canyon
2. Beaver
3. Black Oak
4. Buck
5. Carroll
6. George
7. Holiday
8. Le-Aqua-Na
9. Loon
10. Sinnissippi Bayou
11. Sunset
12. Woodhaven

Lakes sampled 4–8 periods

- A. Galena
- B. Goose
- C. Heidecke
- D. Lincoln
- E. Menno-Haven
- F. Pine
- G. Shabbona
- H. Summerset

**FIGURE 1**  
**West-Central Region**  
**1991 VLMP Lakes**

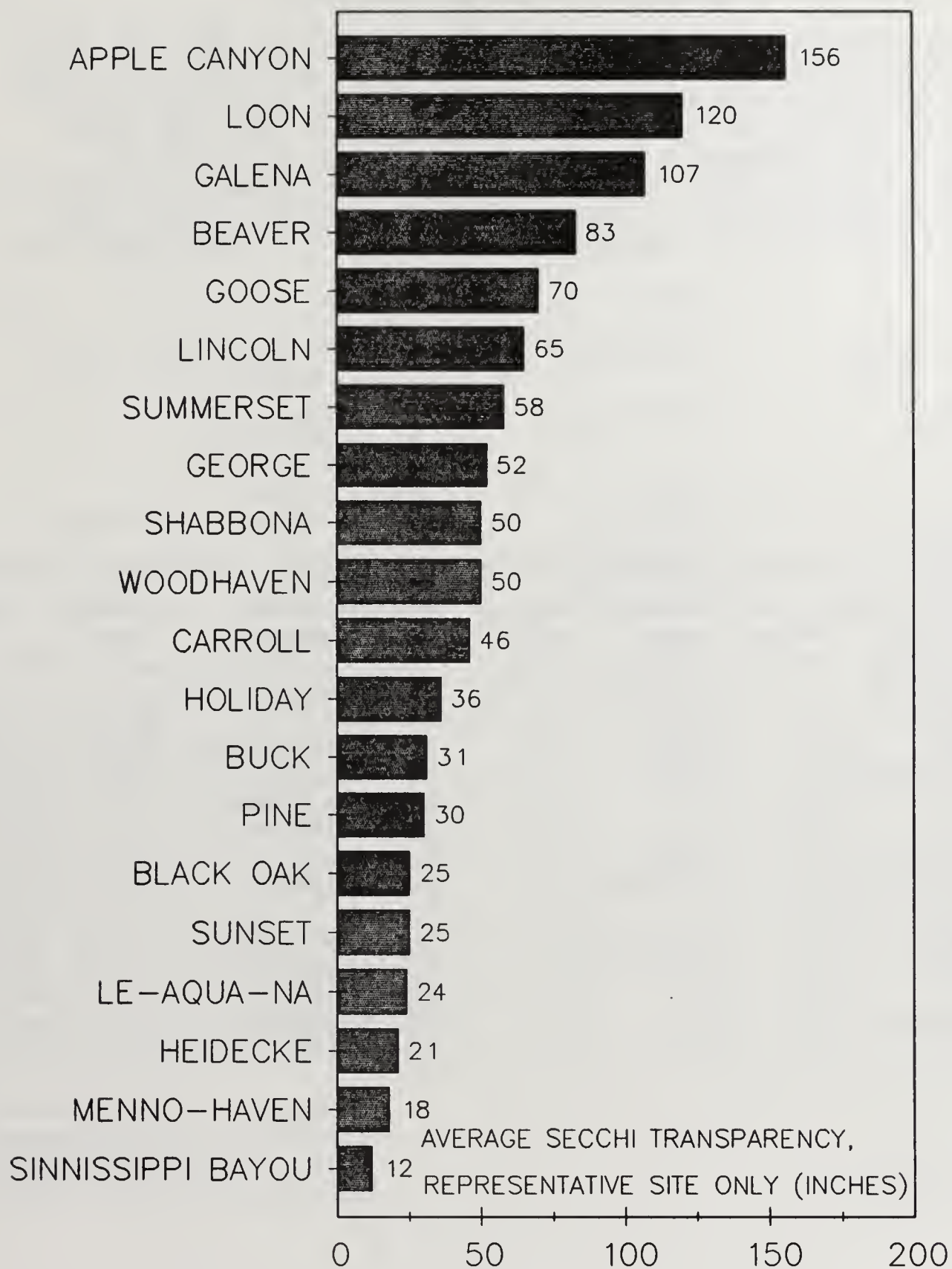


FIGURE 2. Ranking of 20 Lakes by Average Secchi Transparency (Inches), Illinois Volunteer Lake Monitoring Program, 1991 (only lakes monitored four or more sampling periods).

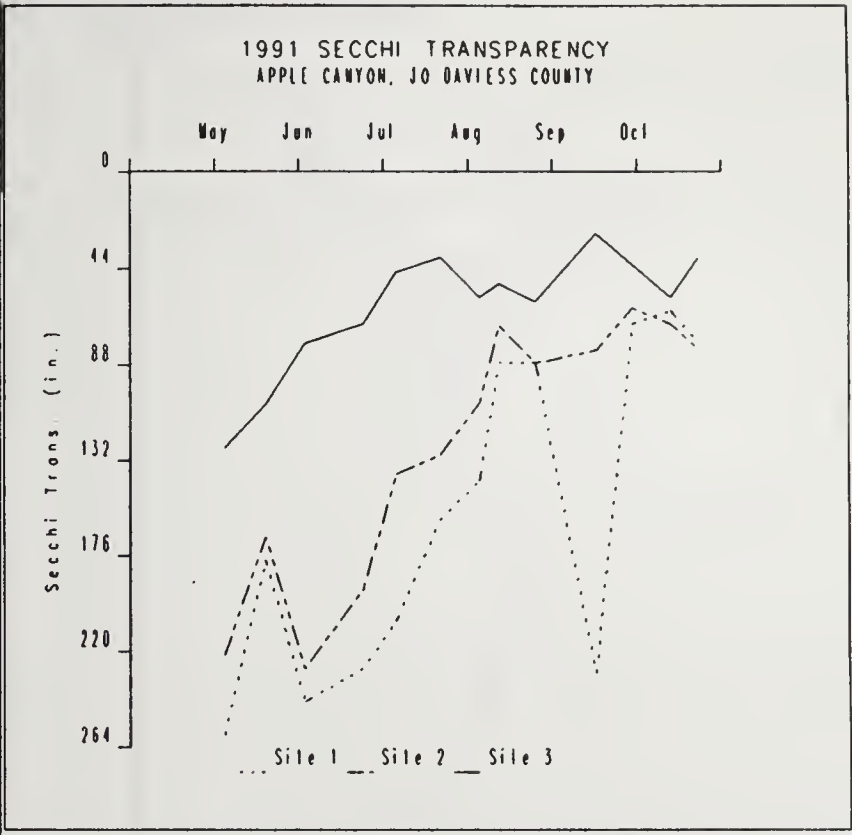
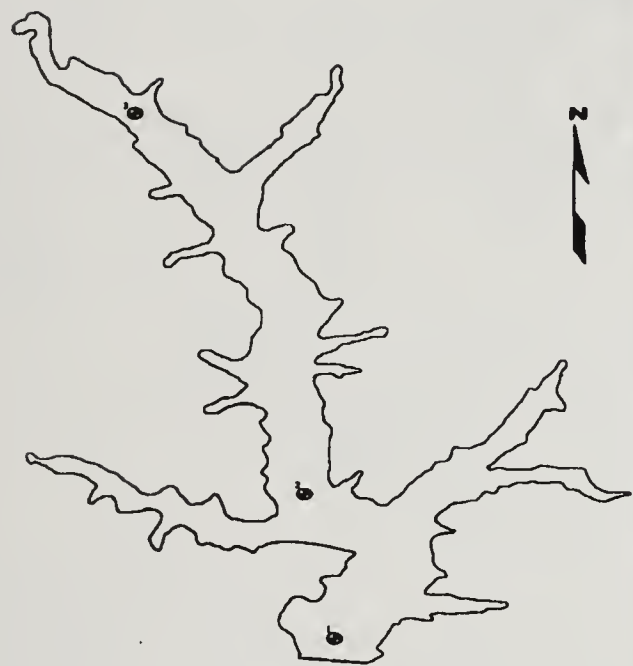
## SECTION II: 1991 VLMP LAKE DATA

This section contains data for those Northwestern Illinois 1991 VLMP lakes which were monitored for four or more periods during the season. For each lake the following information is provided: 1) a map of the lake, 2) 1991 Secchi disc readings (in tabular and graphic form), 3) 1991 total depth readings, and 4) a summary of the 1991 field observations made by the volunteer. Volunteer Water Quality Monitoring was performed and is presented for Lakes Le-Aqua-Na, Buck, Holiday and Sinnissippi Bayou. Ambient Lake Monitoring Program data are presented for Shabbona, Loon, and Heidecke Lakes.

<u>Lake</u>	<u>County</u>	<u>Volunteer</u>
Apple Canyon	Jo Daviess	Frank P. Loftus and Kenneth Beach
Beaver	Grundy	Joyce Grabow
Black Oak	Lee	Jan Gedgaud and John Maltbey
Buck	DeKalb	Robert Minnear
Carroll	Carroll	William Siegner and Art West
Galena	Jo Daviess	Don Dunlavy
George	Rock Island	Mike Murrin
Goose	Grundy	Michael Dunbar
Heidecke	Grundy	IEPA Staff
Holiday	La Salle	Robert and Agnes Esser
Le-Aqua-Na	Stephenson	David Nolen
Lincoln	Grundy	Ray Sarna
Loon	Kendall	Bill Konczal, IEPA Staff
Menno-Haven	Bureau	Mark McReynolds
Pine	Lee	Jan Gedgaud and John Maltbey
Shabbona	DeKalb	IEPA Staff
Sinnissippi	Whiteside	Bob Neubauer
Bayou		
Summerset	Stephenson	Neil Dahlstrand
Sunset	Lee	Jan Gedgaud and John Maltbey
Woodhaven	Lee	Jan Gedgaud and John Maltbey

AB:lat/sp/1475n, 1-7

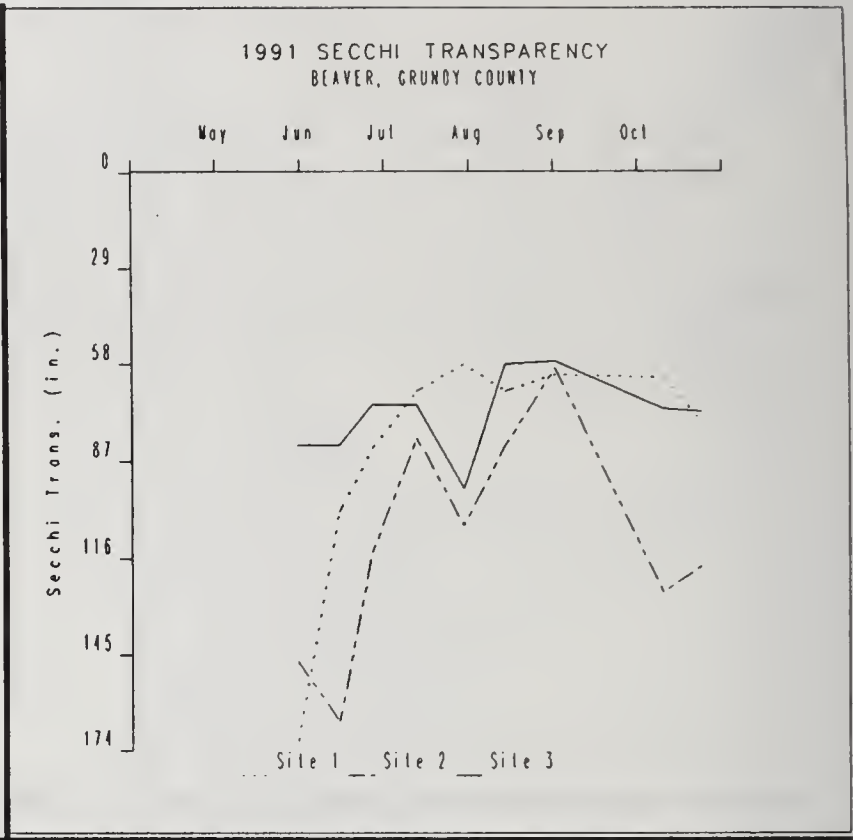
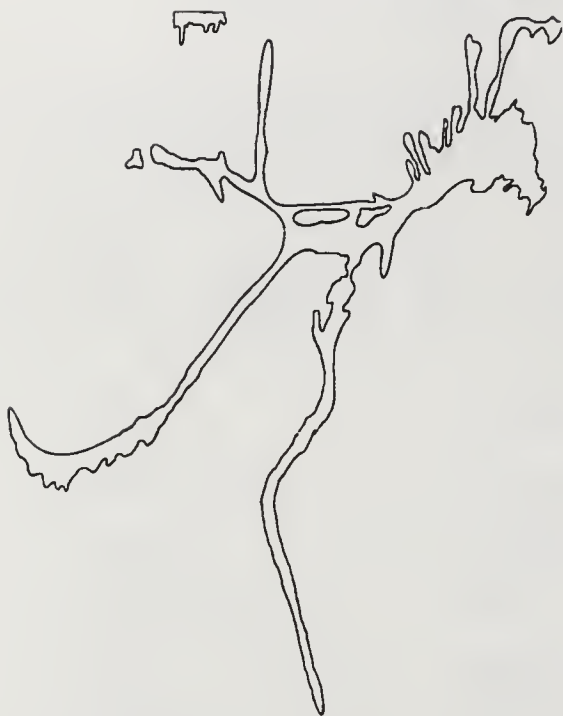
APPLE CANYON - JO DAVIESS COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore							
	Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3				
05/04/91		69.0	48.0	10.5	258	222	126B	2	2	2		0	0	0		1	1	1		0	0	0		1	1	1
05/19/91		69.0	48.0	10.0	178	167	106	2	2	6		0	0	2		2	2	2		0	0	0		1	1	3
06/02/91		69.0	48.0	10.0	243	228	78	3	3	3		0	0	1		1	1	1		0	0	0		2	1	4
06/23/91		70.0	49.0	11.0	228	192	69	2	2	2		0	0	0		0	0	0		0	0	0		1	1	2
07/05/91		69.0	48.0	10.0	206	138	46	2	2	6		0	0	3		2	2	3		0	0	0		2	2	2
07/21/91		69.0	48.0	10.0	159	129	39	2	2	6		0	0	3		2	2	3		0	0	0		2	2	2
08/04/91		69.0	48.0	10.0	141	105	57	2	3	3		0	0	1		1	3	3		0	0	0		1	2	3
08/11/91		69.0	48.0	10.0	87	70	51	4	4	6		0	0	1		3	3	3		0	0	0		2	2	1
08/24/91		69.0	48.0	10.0	87	87	59	3	3	6		0	0	2		3	3	4		0	0	0		3	4	4
09/15/91		69.0	48.0	10.0	230	81	28	2	3	4		0	0	1		1	3	4		0	0	2		1	1	4
09/28/91		69.0	48.0	9.0	69	62	42	4	4	4		0	0	0		4	4	4		0	0	0		1	1	3
10/12/91		69.0	48.0	10.0	63	69	57	6	6	6		1	1	2		2	2	2		0	0	0		0	1	3
10/22/91		69.0	48.0	9.0	78	81	39	4	4	4		0	0	0		4	4	4		0	0	0		1	1	3
Minimum		69.0	48.0	9.0	63	62	28																			
Maximum		70.0	49.0	11.0	258	228	126																			
Average		69.1	48.1	10.0	156	125	61																			
Std Dev		0.3	0.3	0.5	73	59	28																			

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

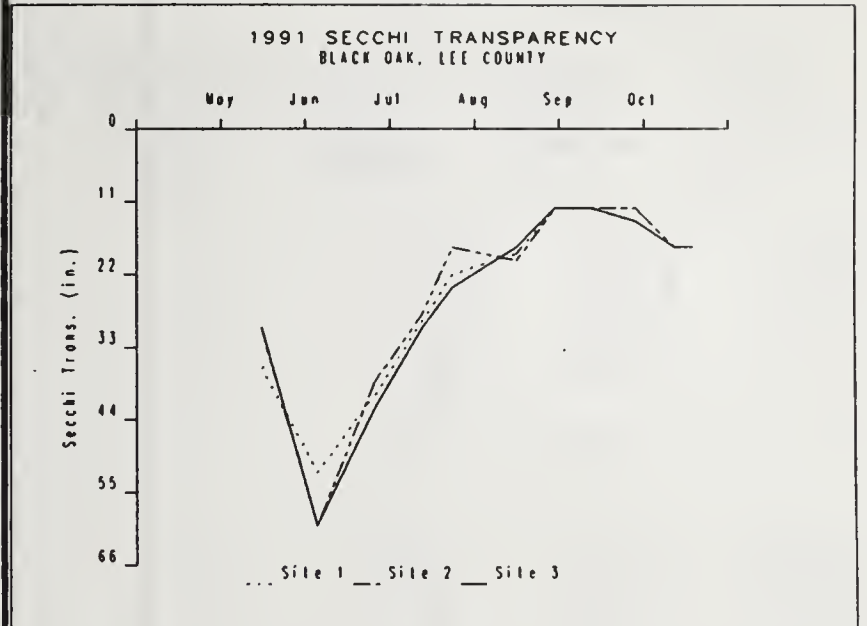
BEAVER - GRUNDY COUNTY



Date	Total Depth			Secchi Trans.			Water			Suspended			Suspended			Weeds			Weeds Near		
	(Feet)			(Inches)			Color			Sediment			Algae			at Site			Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/30/91	20.0	25.0	9.0	171	147	82	2	2	2	1	1	1	1	1	1	0	0	0	1	1	1
06/14/91	20.0	25.0	9.0	102	165	82	2	2	3	1	1	1	1	1	2	0	0	1	1	1	2
06/26/51	19.5	24.5	8.5	83	114	70	3	2	3	1	1	2	3	1	2	0	0	0	1	1	2
07/12/91	19.5	24.0	9.0	66	80	70	6	6	6	2	1	1	2	1	2	0	0	1	1	2	2
07/29/91	18.5	24.0	8.5	58	106	95	6	3	6	1	1	1	2	1	1	0		1	1	1	1
08/13/91	18.5	24.0	8.5	66	82	58	6	6	6	2	1	2	2	2	2	0	0	2	1	1	2
08/31/91	19.0	23.5	7.5	61	59	57	5	4	6	0	0	2	3	3	2	0	0	0	3	1	3
10/09/91	19.0	24.0	8.5	62	126	71	5	2	4	2	1	1	3	2	2	0	0	0	1	0	2
10/23/91	19.0	23.0	9.0	75	118	72	2	2	4	1	1	1	1	1	3	0	0	0	0	1	1
Minimum	18.5	23.0	7.5	58	59	57															
Maximum	20.0	25.0	9.0	171	165	95															
Average	19.2	24.1	8.6	83	111	73															
Std Dev	0.6	0.7	0.5	36	34	12															

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

# BLACK OAK - LEE COUNTY

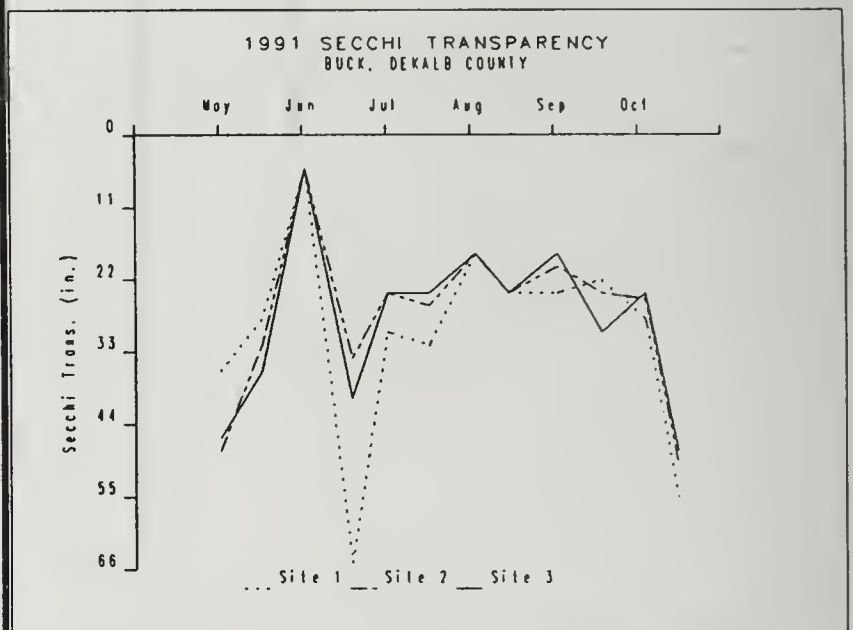


Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/15/91	7.0	8.5	8.0	36	30	30	7	7	7	1	1	1	0	0	0	0	0	0	0	0	0
06/04/91	8.0	8.0	8.5	52	60	60	3	3	3	2	2	3	2	2	2	0	0	0	0	0	0
06/25/91	7.5	8.0	7.0	40	38	42	7	7	7	3	3	3	2	2	2	0	0	0	1	0	0
07/12/91	7.5	8.0	8.0	29	28	30	6	6	6	2	2	2	3	3	3	0	0	0	0	0	0
07/23/91	7.0	8.0	7.5	22	18	24	5	5	5	1	1	1	4	4	4	0	0	0	1	1	1
08/15/91	7.0	7.5	8.0	19	20	18	6	6	6	3	3	3	4	4	4	0	0	0	0	0	0
08/29/91	7.0	8.0	8.0	12	12	12	5	5	5	1	1	1	4	4	4	0	0	0	1		
09/11/91	7.0	7.5	7.5	12	12	12	5	5	5	1	1	1	4	4	4	0	0	0	0	0	0
09/27/91	7.0	7.5	7.5	12	12	14	5	5	5	1	1	1	4	4	4	0	0	0	1	1	1
10/11/91	6.0	8.0	8.0	18	18	18	5	5	5	1	1	1	4	4	4	0	0	0	0	0	0
10/18/91	7.5	7.5	8.5	18	18	18	5	5	5	1	1	1	4	4	4	0	0	0	0	0	0

Minimum	6.0	7.5	7.0	12	12	12
Maximum	8.0	8.5	8.5	52	60	60
Average	7.1	7.9	7.9	25	24	25
Std Dev	0.5	0.3	0.5	13	14	15

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

# BUCK - DEKALB COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
	Site 1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/01/91	14.0	4.0	4.0	36	48B	46W	6	6	6	3	3	2	3	3	2	0	2	3	0	0	0
05/16/91	14.0	4.0	4.0	28	32	36	7	7	7	3	3	3	3	3	3	0	3	4	1	4	4
06/01/91	19.5	9.0	8.0	5	5	5	10	10	10	4	4	4	0	0	0	0	0	0	0	0	0
06/18/91	14.0	4.5	4.0	65	34	40	2	2	2	0	0	0	1	1	1	0	1	0	1	3	1
07/01/91	14.0	4.0	4.0	30	24	24	2	2	2	0	0	0	3	3	3	0	0	0	0	0	0
07/16/91	13.5	3.0	3.0	32	26	24	2	2	2	0	0	0	3	3	3	0	0	0	0	0	0
08/02/91	13.0	4.0	3.5	18	18	18	3	3	3	0	0	0	3	3	3	0	0	0	0	0	0
08/14/91	14.0	4.0	4.0	24	24	24	3	3	3	0	0	0	3	3	3	0	0	0	0	0	0
09/01/91	14.0	4.0	4.0	24	20	18	15	15	15	3	3	3	0	0	0	0	0	0	0	0	0
09/17/91	13.0	4.0	4.0	22	24	30	7	7	7	3	3	3	3	3	3	0	0	0	0	0	0
10/03/91	14.0	4.0	4.0	28	25	24	8	8	8	3	3	3	0	0	0	0	0	0	0	0	0
10/15/91	14.0	4.0	4.0	55	50B	48B	2	2	2	2	2	2	2	2	2	0	0	0	0	0	0
Minimum	13.0	3.0	3.0	5	5	5															
Maximum	19.5	9.0	8.0	65	50	48															
Average	14.3	4.4	4.2	31	28	28															
Std Dev	1.7	1.5	1.2	16	12	13															

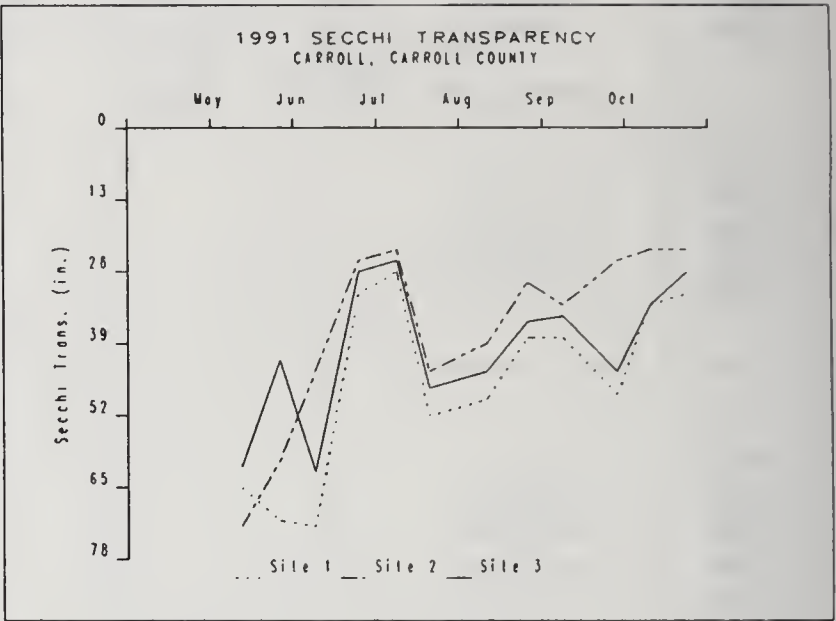
Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

1991 VOLUNTEER LAKE MONITORING DATA FOR BUCK LAKE, DEKALB COUNTY

Map Code	S i t e	Sample Date (MM/DD/YY)	Depth of Sample (Feet)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Nitrate/ Nitrite Nitrogen (mg/L)	Ammonia/ Ammonium Nitrogen (mg/L)	Total Phosphorus (mg/L)
VTZN	1	05/13/91	1	1	1	11.00	0.01	0.005
VTZN	1	06/18/91	1	2	1	9.90	0.09	0.026
VTZN	1	07/15/91	1	5	2	1.80	0.02	0.145
VTZN	1	08/13/91	1	6	3	0.05	0.03	0.102
VTZN	1	09/17/91	1	7	4	0.01	0.01	0.292
Site	1	Mean Surface		4	2	4.55	0.03	0.114
VTZN	3	05/13/91	1	2	1	-9999	0.03	0.025
VTZN	3	06/18/91	1	4	2	9.40	0.09	0.025
VTZN	3	07/15/91	1	6	4	1.80	0.04	0.109
VTZN	3	08/13/91	1	6	4	0.09	0.02	0.088
VTZN	3	09/17/91	1	12	6	0.25	0.11	0.210
Site	3	Mean Surface		6	3	2.89	0.06	0.091
Date Mean		05/13/91		2	1	11.00	0.02	0.015
Date Mean		06/18/91		3	2	9.65	0.09	0.025
Date Mean		07/15/91		6	3	1.80	0.03	0.127
Date Mean		08/13/91		6	4	0.07	0.03	0.095
Date Mean		09/17/91		10	5	0.13	0.06	0.251
Lake Mean		Surface		5	3	3.81	0.04	0.103

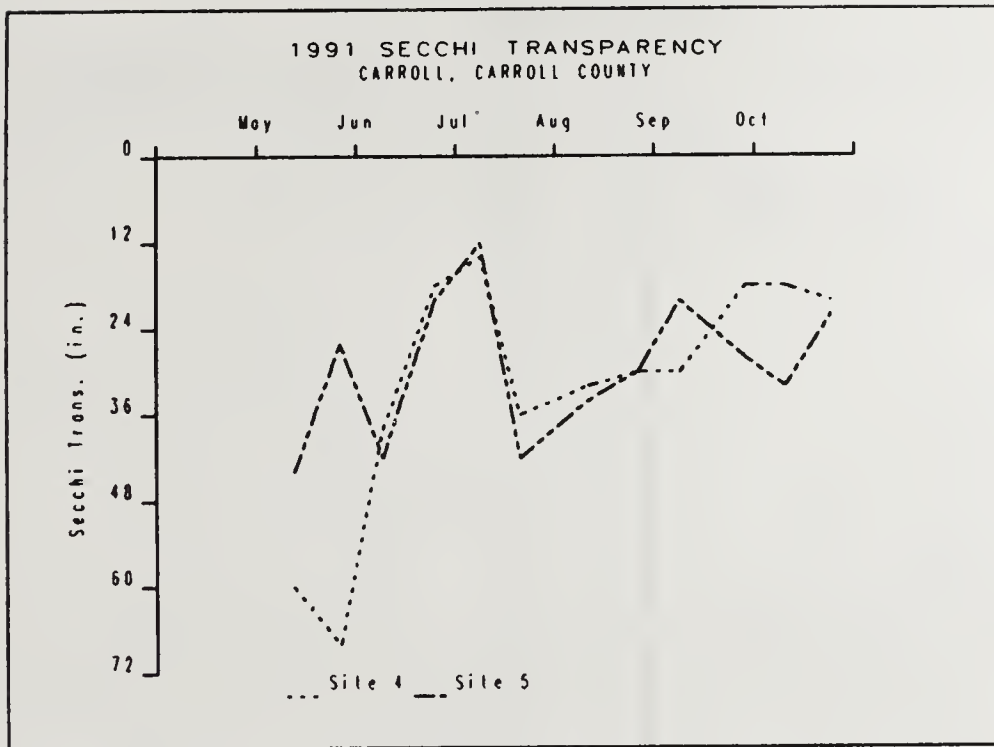
CARROLL - CARROLL COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore			
	Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
04/14/91		60.0	38.0	42.0	28	24	24	7	7	7	4	4	4	3	3	3	1	1	1	2	2	2
04/24/91		60.0	37.0	41.0	38	30	30	7	7	7	2	3	3	1	1	1	0	0	0	0	0	0
05/12/91		59.5	39.0	42.0	65	72	61	3	2	3	0	0	0	3	2	3	0	0	0	1	1	1
05/26/91		60.0	25.0	42.0	71	60	42	3	3	6	1	1	3	2	2	2	0	0	0	1	1	1
06/08/91		60.0	37.0	41.0	72	44	62	2	3	3	1	2	2	3	3	3	0	0	0	1	1	1
06/24/91		59.0	36.0	40.0	30	24	26	4	7	7	1	3	3	4	4	4	0	0	0	1	1	1
07/08/91		58.0	35.0	38.0	26	22	24	6	7	7	3	4	4	4	4	4	0	0	0	1	1	1
07/20/91		57.0	24.0	36.0	52	44	47	6	6	6	2	2	2	4	4	4	0	0	0	1	1	1
08/10/91		57.0	34.0	36.0	49	39	44	6	7	6	3	3	2	3	3	3	0	0	0	1	1	1
08/25/91		50.0	18.0	34.0	38	28	35	6	7	6	2	3	2	3	3	3	0	0	0	1	1	1
09/07/91		48.0	18.0	32.0	38	32	34	6	7	6	3	4	3	4	4	4	0	0	0	1	1	1
09/27/91		47.0	19.0	32.0	48	24	44	4	9	4	2	4	2	3	3	3	0	0	0	1	1	1
10/09/91		47.0	19.0	32.0	32	22	32	3	7	3	2	4	2	2	3	3	0	0	0	1	1	1
10/23/91		47.0	22.0	32.0	30	22	26	6	6	6	3	3	3	3	3	3	0	0	0	1	1	1
Minimum		47.0	18.0	32.0	26	22	24															
Maximum		60.0	39.0	42.0	72	72	62															
Average		54.1	27.2	36.4	46	36	40															
Std Dev		5.7	8.3	4.1	16	16	13															

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

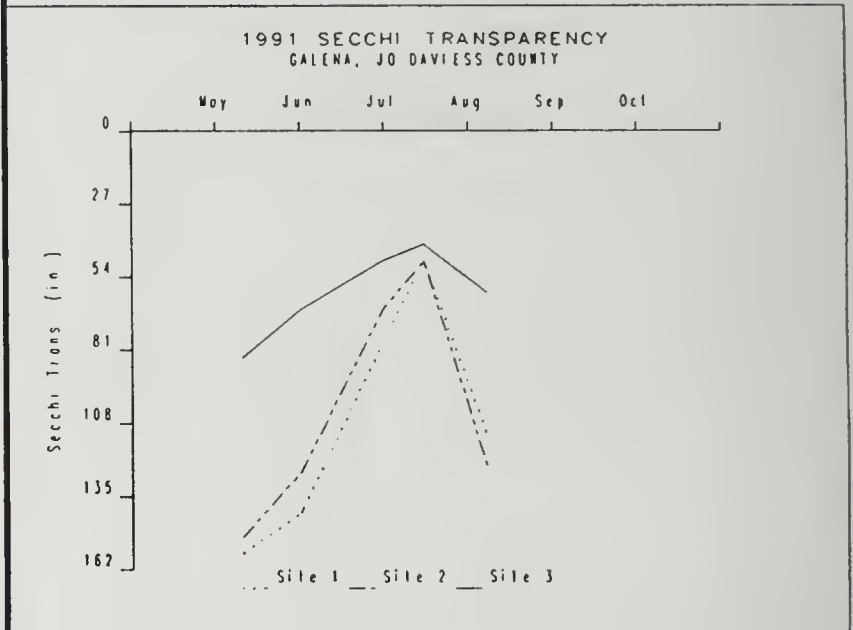
# CARROLL - CARROLL COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
	Site	4	5	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6
04/14/91		16.0	17.0	22	22		7	7		4	4		3	3		1	1		2	2	
04/24/91		17.0	15.0	24	26		7	7		3	3		1	1		0	0		0	0	
05/12/91		16.0	17.0	60	44		2	3		0	1		2	3		0	0		1	1	
05/26/91		17.0	17.0	68	26		3	7		1	4		2	2		0	0		1	1	
06/08/91		17.0	16.0	38	42		4	4		3	3		3	3		0	0		1	1	
06/24/91		17.0	16.0	18	20		7	7		4	4		4	4		0	0		1	1	
07/08/91		16.0	15.0	14	12		10	10		4	4		4	4		0	0		1	1	
07/20/91		14.0	8.0	36	42		6	6		3	3		4	4		0	0		1	1	
08/10/91		14.0	6.0	32	34		7	7		4	4		3	3		0	0		1	1	
08/25/91		12.0	6.0	30	30		10	10		4	4		3	3		0	0		1	1	
09/07/91		12.0	8.0	30	20		7	7		4	4		4	4		0	0		1	1	
09/27/91		11.0	7.0	18	28		11	7		4	3		3	3		0	0		1	1	
10/09/91		11.0	7.0	18	32		10	3		4	2		3	2		0	0		1	1	
10/23/91		11.0	7.0	20	22		7	6		4	3		3	3		0	0		1	1	
Minimum		11.0	6.0	14	12																
Maximum		17.0	17.0	68	44																
Average		14.0	10.9	32	29																
Std Dev		2.5	4.8	17	10																

Key	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
Color	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

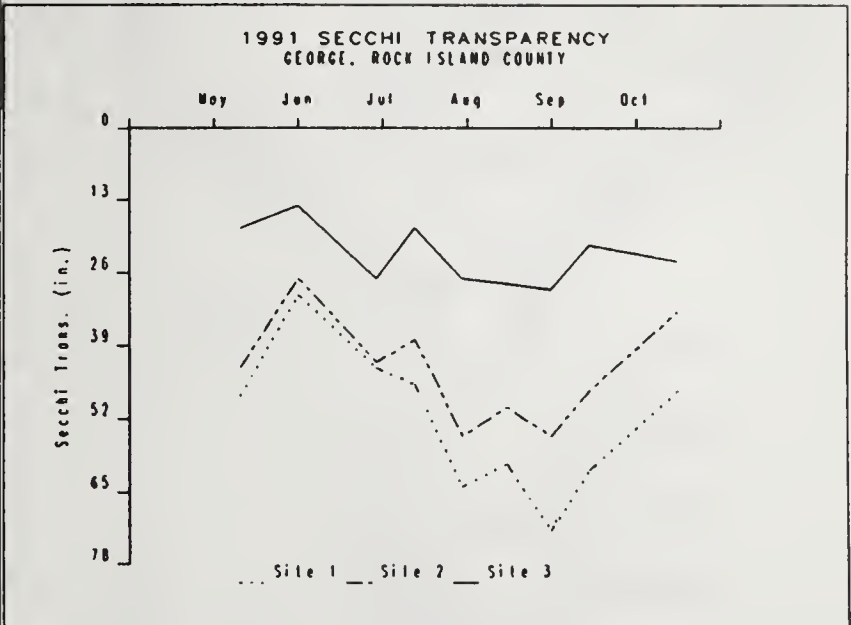
# GALENA - JO DAVIESS COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/10/91	48.0	28.0	7.0	156	150	84B	1	1	1	0	0	0	0	0	0	0	0	2	1	1	1
05/31/91	48.0	26.0	7.0	141	126	66	1	1	1	0	0	1	0	0	0	0	0	2	1	1	1
06/30/91	47.0	27.0	7.0	78	66	48	2	2	3	0	1	1	1	1	1	0	1	3	1	2	3
07/15/91	46.0	27.0	7.0	48	48	42	1	2	3	0	0	1	1	1	2	0	1	3	1	2	2
08/07/91	47.0	27.0	7.0	114	126	60	1	1	3	0	0	1	0	0	1	0	0	0	1	1	2
Minimum	46.0	26.0	7.0	48	48	42															
Maximum	48.0	28.0	7.0	156	150	84															
Average	47.2	27.0	7.0	107	103	60															
Std Dev	0.8	0.7	0.0	45	44	16															

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

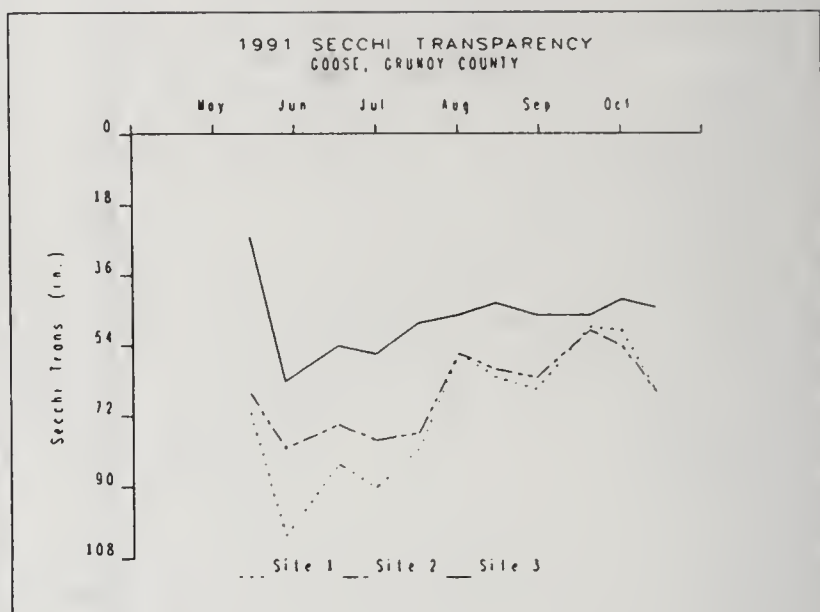
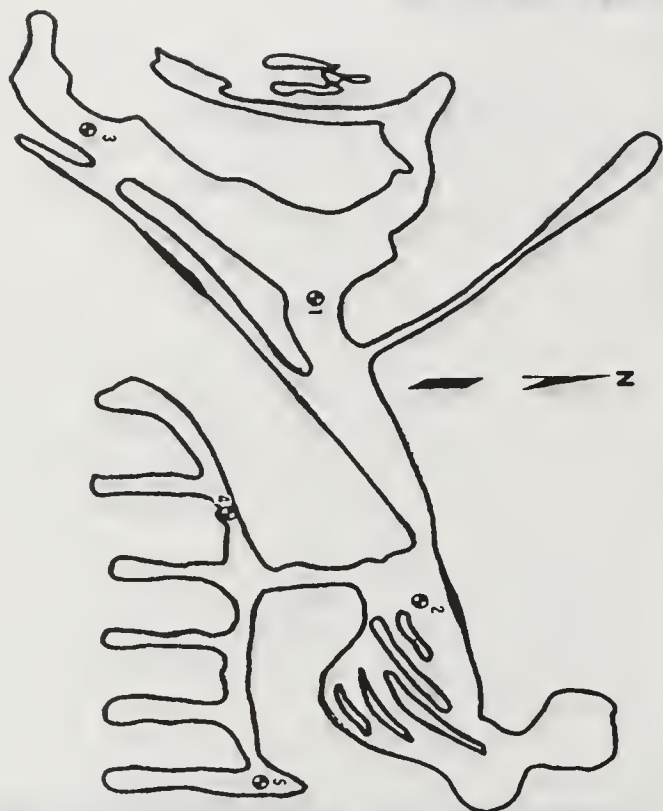
# GEORGE - ROCK ISLAND COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/10/91	50.5	29.0	7.0	48	43	18	6	6	9	1	1	3	1	1	1	0	0	0	1	0	1
05/31/91	50.5	31.0	5.5	30	27	14	7	7	10	2	2	3	2	2	2	0	0	0	2	2	2
06/28/91	49.0	31.0	6.0	43	42	27	2	2	3	0	0	1	3	3	3	0	0	0	1	2	2
07/12/91	50.0	29.5	6.0	46	38	18	2	2	7	0	0	3	3	3	3	0	0	0	1	1	1
07/29/91	49.0	30.5	6.0	64	55	27	2	2	6	0	0	2	2	2	2	0	0	0	1	2	2
08/14/91	49.5	29.0	6.0	60	50	28	2	2	6	0	0	1	2	2	2	0	0	0	1	2	2
08/30/91	47.0	30.5	6.0	72	55	29	1	2	6	0	0	2	2	2	3	0	0	0	1	1	2
09/13/91	49.0	30.0	5.0	61	47	21	1	2	6	0	0	1	1	2	3	0	0	0	1	1	2
10/15/91	49.5	30.0	6.0	47	33	24	2	3	6	0	1	1	3	3	3	0	0	0	1	1	1
Minimum	47.0	29.0	5.0	30	27	14															
Maximum	50.5	31.0	7.0	72	55	29															
Average	49.3	30.1	5.9	52	43	23															
Std Dev	1.1	0.8	0.5	13	10	5															

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

# GOOSE - GRUNDY COUNTY

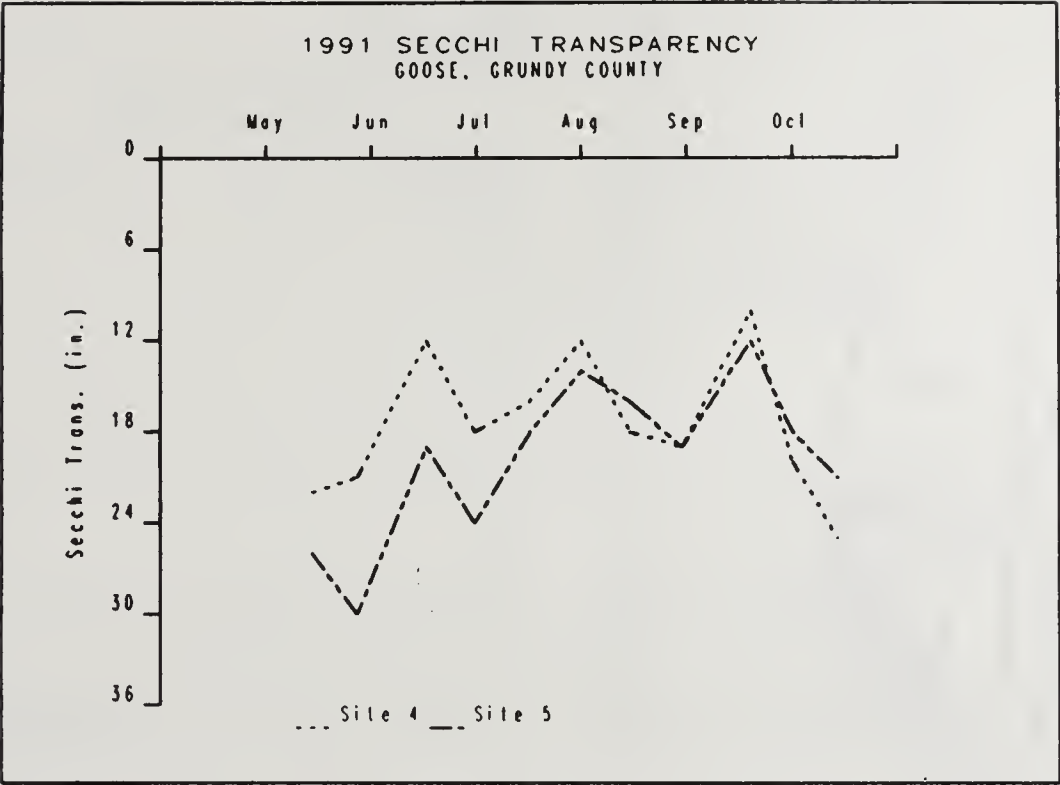


Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/14/91	26.0	15.5	5.5	71	66	26	2	2	2	0	0	0	1	1	1	0	0	0	1	2	1
05/27/91	25.5	15.5	5.5	102	80	63	2	2	2	0	0	0	1	1	1	0	0	1	1	2	1
06/16/91	26.0	15.0	5.5	84	74	54	2	2	2	0	0	0	1	1	1	0	0	3	2	3	2
06/30/91	26.0	15.0	5.0	90	78	56	2	2	2	0	0	0	1	1	1	0	0	4	3	4	3
07/16/91	25.0	14.0	5.0	80	76	48	2	2	2	0	0	0	2	2	2	1	0	4	3	4	3
07/31/91	24.5	14.0	4.5	56	56	46	2	2	2	0	0	0	1	1	1	0	0	3	3	4	4
08/14/91	25.0	14.0	4.0	62	60	43	2	2	2	0	0	0	1	1	2	0	0	4	3	4	4
08/29/91	25.0	14.0	4.0	65	62	46	2	2	2	0	0	0	1	1	2	0	0	4	4	4	4
09/18/91	24.5	13.5	4.0	49	50	46	2	2	2	1	1	1	2	2	2	0	0	2	3	4	4
09/30/91	24.0	14.0	4.0	50	54	42	2	2	2	1	1	1	2	2	2	0	0	0	3	3	3
10/13/91	24.5	14.5	4.5	66	66	44	2	2	2	1	1	1	2	2	2	0	0	0	1	2	3
Minimum	24.0	13.5	4.0	49	50	26															
Maximum	26.0	15.5	5.5	102	80	63															
Average	25.1	14.5	4.7	70	66	47															
Std Dev	0.7	0.7	0.6	17	10	9															

Key	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
Color	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

GOOSE - GRUNDY COUNTY

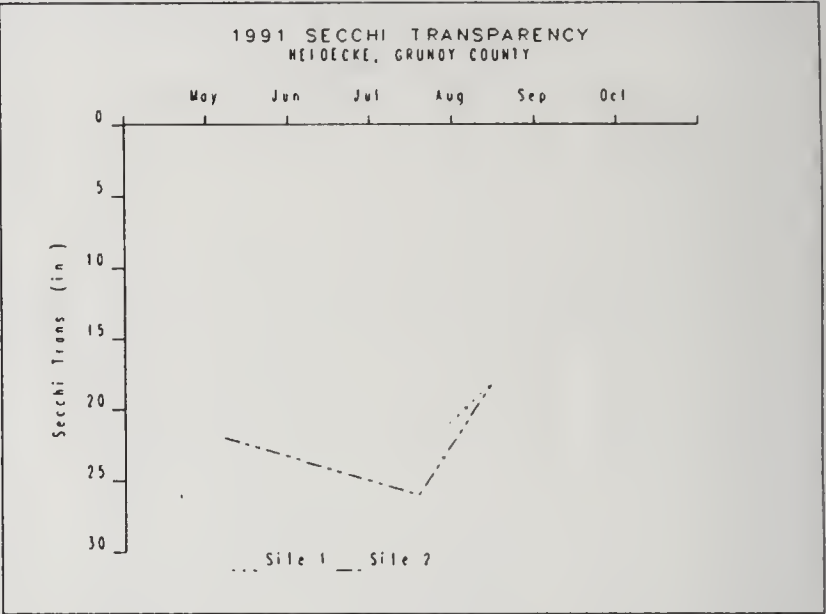
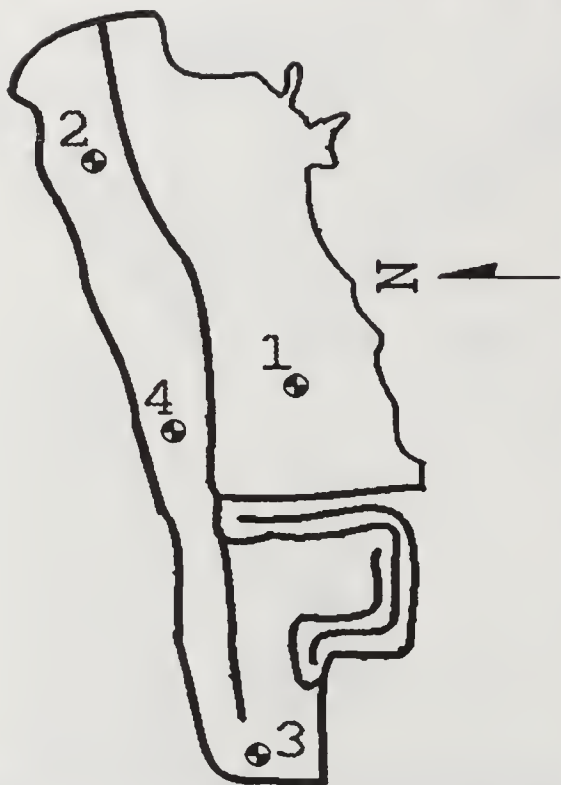


Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6
05/14/91	6.0	5.0		22	26		7	7		1	1		0	0		0	0		1	1	
05/27/91	5.5	5.0		21	30		14	7		2	2		0	0		0	0		1	1	
06/16/91	5.0	5.0		12	19		14	6		2	2		0	0		1	0		2	1	
06/30/91	4.5	4.5		18	24		6	6		2	2		0	0		2	1		3	2	
07/16/91	4.5	4.0		16	18		14	6		2	2		1	1		2	0		4	3	
07/31/91	4.0	4.0		12	14		14	6		1	1		1	1		0	1		4	2	
08/14/91	4.0	4.0		18	16		3	6		1	1		2	2		0	0		3	2	
08/29/91	4.0	4.0		19	19		3	3		1	1		2	2		1	0		4	3	
09/18/91	4.0	4.0		10	12		14	6		2	2		1	1		0	0		3	2	
09/30/91	3.5	3.5		20	18		14	6		2	2		2	2		0	0		2	1	
10/13/91	4.0	4.0		25	21		14	6		2	2		1	1		0	0		1	1	
Minimum	3.5	3.5		10	12																
Maximum	6.0	5.0		25	30																
Average	4.5	4.3		18	20																
Std Dev	0.8	0.5		5	5																

Key	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
Color	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

HEIDECKE - GRUNDY COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore			
	Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/07/91		11.0	11.0	15.0	22	24		7	7	7	2	2	2	0	0	0	0	0	0	1	1	1
06/13/91		8.5	17.0					6	6		1	1		0	0		0	0		0	1	
07/18/91		11.0	17.5		23	26		7	7		0	0		1	1		0	0		1	0	
08/15/91		11.0	19.0		8	18		7	7		0	0		0	0		0	0		1	1	
Minimum		8.5	11.0	15.0	18	18																
Maximum		11.0	19.0	15.0	23	26																
Average		10.4	16.1	15.0	21	22																
Std Dev		1.3	3.5	0.0	4	4																

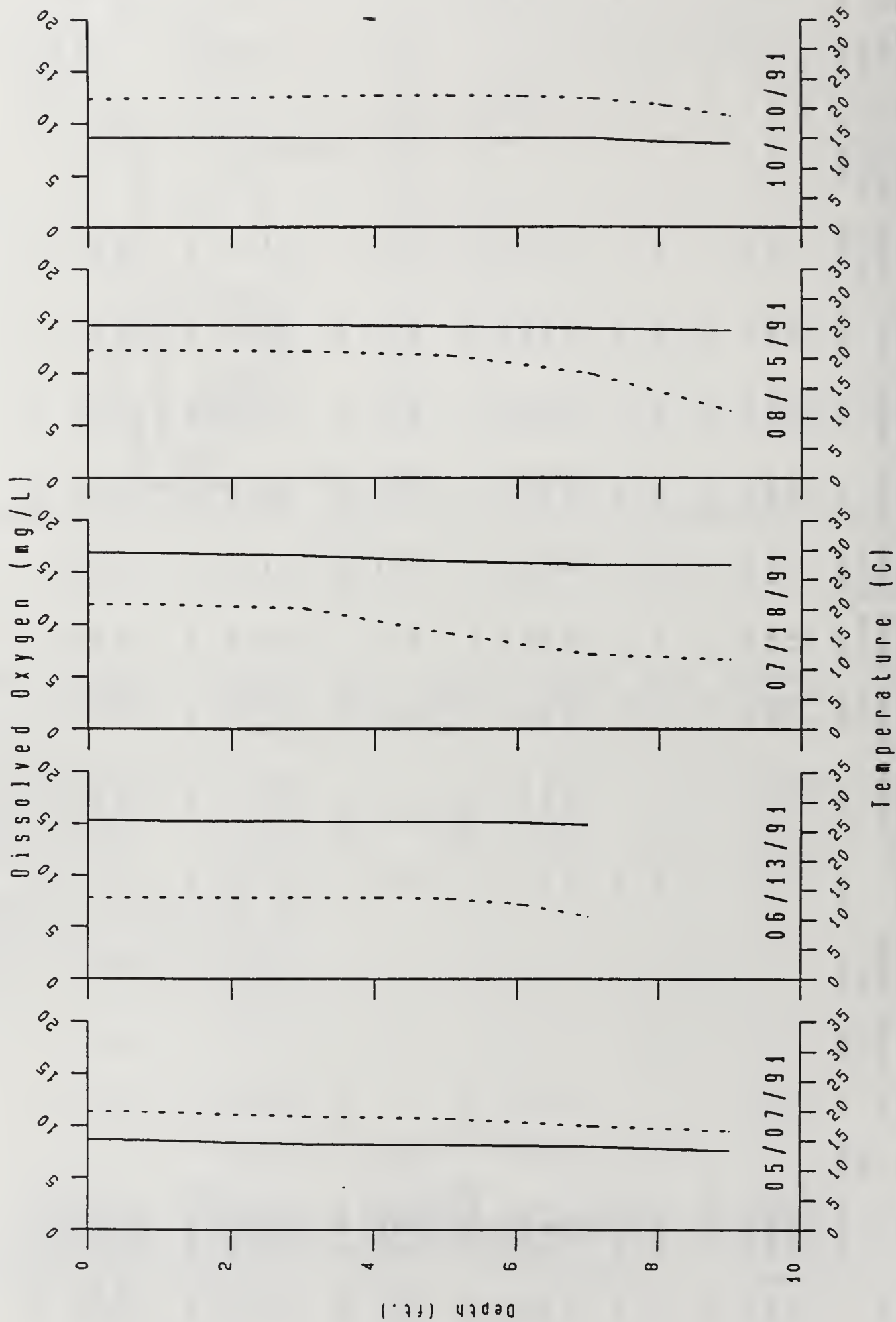
Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

1991 AMBIENT LAKE MONITORING DATA FOR HEYDECKE (COLLINS), GRUNDY COUNTY

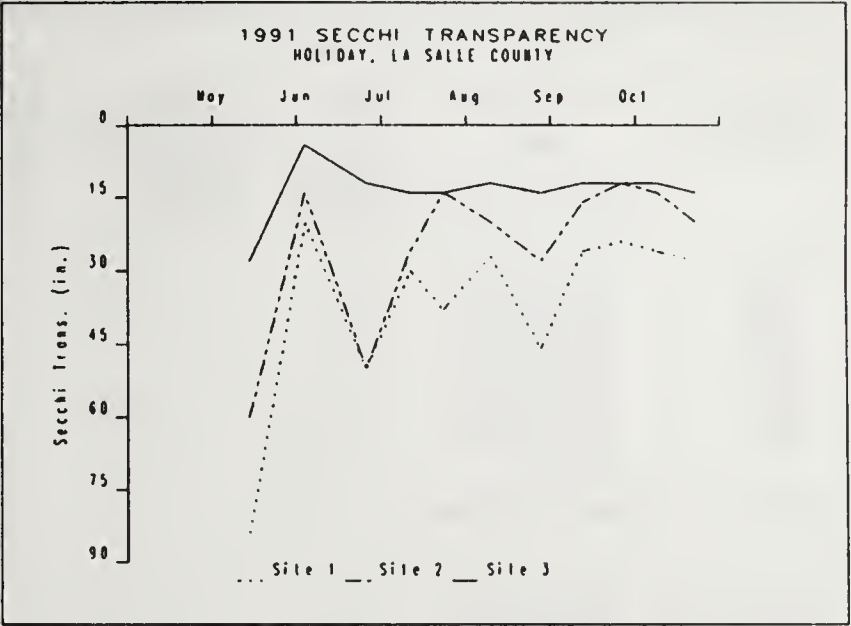
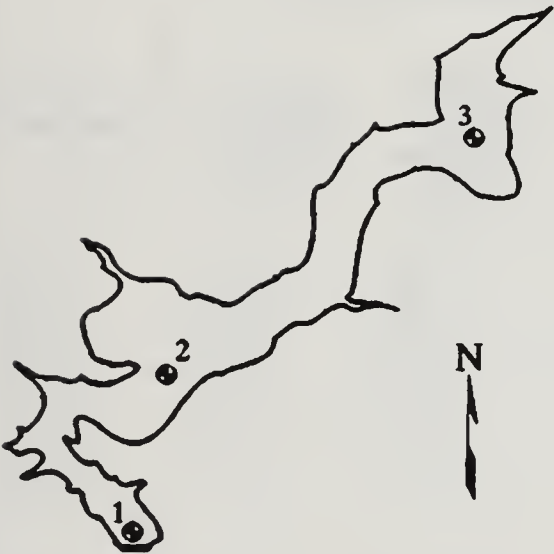
Map Code	Site	Sample Date (MM/DD/YY)	Depth of Sample (Feet)	Secchi Trans. (In.)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Turbidity (NTU)	Chlorophyll a (Corrected) (ug/L)	Nitrate/Nitrite Nitrogen (mg/L)	Ammonia/Ammonium Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Conductivity (umho/cm)	Total Alkalinity (mg/L as CaCO3)	Phenolal. Alkalinity (mg/L as CaCO3)	pH	Chemical Oxygen Demand (mg/L)	Dissolved Oxygen (mg/L)	Water Temp. (C)
SDX	1	05/07/91	1	22	20	0	9.1	44.50	0.10	0.03	1.30	0.004	0.014	1600	100	6	8.6	35	11.3	15.0
SDX	1	06/13/91	1	34	10	7	5.3	29.90	0.10	0.05	1.30	0.046	0.027	1402	174	4	8.4	32	7.8	26.7
SDX	1	07/10/91	1	23	18	11	3.6	38.38	0.10	0.04	1.48	0.100	0.021	1940	166	6	8.7	34	11.9	29.5
SDX	1	08/15/91	1	18	20	15	7.9	.	0.10	0.04	1.50	0.100	0.022	152	100	20	8.6	37	12.2	25.8
Site 1		Mean Surface		24	17	10	6.5	37.59	0.10	0.04	1.43	0.093	0.021	1193	171	9	8.6	35	10.8	24.2
SDX	1	05/07/91	9	.	20	0	10.2	.	0.10	0.05	1.80	0.094	0.014	1604	166	0	8.2	35	9.5	13.3
Site 1		Mean Bottom		0000	20	0	10.2	0000000	0.10	0.05	1.80	0.094	0.014	1804	166	0	8.2	35	9.5	13.3
SDX	2	05/07/91	1	22	16	6	10.2	58.74	0.10	0.05	1.40	0.088	0.014	1582	176	4	8.4	35	11.2	15.3
SDX	2	06/13/91	1	24	13	11	4.9	56.28	0.10	0.09	1.80	0.107	0.035	1478	166	0	8.2	32	8.0	26.7
SDX	2	07/10/91	1	26	14	9	3.3	62.82	0.10	0.03	1.40	0.102	0.028	1540	182	10	8.7	35	11.7	29.8
SDX	2	08/15/91	1	18	18	14	6.7	.	0.10	0.05	1.50	0.117	0.021	155	184	0	8.3	38	12.0	26.5
Site 2		Mean Surface		23	15	10	8.3	59.27	0.10	0.06	1.52	0.103	0.024	1183	177	4	8.4	35	10.7	24.5
SDX	2	06/13/91	13	.	13	9	7.4	.	0.10	0.23	1.80	0.120	0.048	1487	170	0	7.8	30	3.8	25.1
SDX	2	07/10/91	15	.	16	11	4.1	.	0.10	0.03	1.40	0.105	0.028	1540	182	4	8.3	32	6.2	27.6
SDX	2	08/15/91	17	.	29	15	15.5	.	0.10	0.05	1.60	0.161	0.029	154	192	0	7.5	35	3.8	24.1
Site 2		Mean Bottom		0000	19	12	9.0	0000000	0.10	0.10	1.60	0.129	0.035	1060	181	1	7.9	32	4.5	25.6
SDX	4	05/07/91	1	24	17	9	10.1	57.62	0.10	0.04	1.40	0.087	0.012	1570	170	0	7.3	34	10.5	15.0
SDX	4	06/13/91	1	30	8	0	3.9	34.33	0.10	0.04	1.60	0.096	0.029	1473	168	2	8.4	33	8.9	28.0
SDX	4	07/10/91	1	27	14	10	2.8	54.64	0.10	0.04	1.40	0.112	0.033	1520	172	4	8.4	33	8.5	29.8
SDX	4	08/15/91	1	18	17	14	7.4	.	0.10	0.04	1.40	0.104	0.023	155	170	0	7.5	34	8.6	25.9
Site 4		Mean Surface		25	14	10	6.0	48.86	0.10	0.04	1.45	0.100	0.024	1179	170	2	7.9	34	9.1	24.8
Date Mean		05/07/91		22	18	7	9.7	51.62	0.10	0.04	1.45	0.086	0.014	1581	178	5	8.5	35	11.3	15.2
Date Mean		06/13/91		29	12	9	5.1	43.08	0.10	0.07	1.55	0.097	0.031	1479	170	2	8.3	32	7.9	26.7
Date Mean		07/10/91		25	16	10	3.5	50.60	0.10	0.04	1.40	0.101	0.024	1540	175	8	8.7	35	11.8	29.8
Date Mean		08/15/91		18	19	15	7.3	0000000	0.10	0.04	1.50	0.108	0.021	153	172	10	8.4	38	12.1	26.1
Lake Mean		Surface		23	16	10	6.4	48.43	0.10	0.05	1.47	0.098	0.023	1186	174	6	8.5	35	10.8	24.4

# Dissolved Oxygen and Temperature Profiles

COLLINS, GRUNDY



HOLIDAY - LA SALLE COUNTY



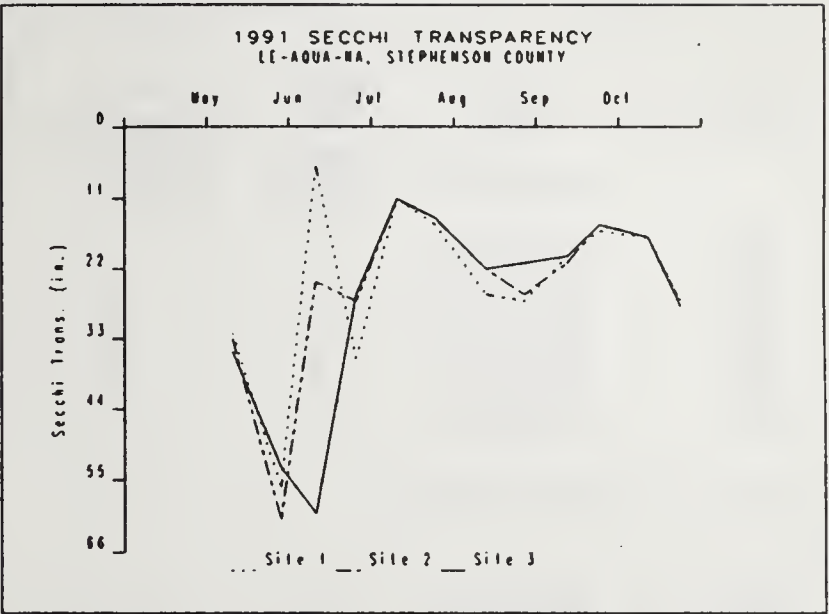
Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore				
	Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
05/01/91		14.0	4.0	4.0	36	48B	46W	6	6	6	3	3	2		3	3	2	0	2	3	0	0	0
05/16/91		14.0	4.0	4.0	28	32	36	7	7	7	3	3	3		3	3	3	0	3	4	1	4	4
06/01/91		19.5	9.0	8.0	5	5	5	10	10	10	4	4	4		0	0	0	0	0	0	0	0	0
06/18/91		14.0	4.5	4.0	65	34	40	2	2	2	0	0	0		1	2	2	0	1	0	1	3	1
07/01/91		14.0	4.0	4.0	30	24	24	2	2	2	0	0	0		3	3	3	0	0	0	0	0	0
07/16/91		13.5	3.0	3.0	32	26	24	2	2	2	0	0	0		3	3	3	0	0	0	0	0	0
08/02/91		13.0	4.0	3.5	18	18	18	3	3	3	0	0	0		3	3	3	0	0	0	0	0	0
08/14/91		14.0	4.0	4.0	24	24	24	3	3	3	0	0	0		3	3	3	0	0	0	0	0	0
09/01/91		14.0	4.0	4.0	24	20	18	15	15	15	3	3	3		0	0	0	0	0	0	0	0	0
09/17/91		13.0	4.0	4.0	22	24	30	7	7	7	3	3	3		3	3	3	0	0	0	0	0	0
10/03/91		14.0	4.0	4.0	28	25	24	8	8	8	3	3	3		0	0	0	0	0	0	0	0	0
10/15/91		14.0	4.0	4.0	55	50B	48B	2	2	2	2	2	2		2	2	2	0	0	0	0	0	0
Minimum		13.0	3.0	3.0	5	5	5																
Maximum		19.5	9.0	8.0	65	50	48																
Average		14.3	4.4	4.2	31	28	28																
Std Dev		1.7	1.5	1.2	16	12	13																

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

## 1991 VOLUNTEER LAKE MONITORING DATA FOR HOLIDAY, LA SALLE COUNTY

Map Code	Site	Sample Date (MM/DD/YY)	Depth of Sample (Feet)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Nitrate/Nitrite Nitrogen (mg/L)	Ammonia/Ammonium Nitrogen (mg/L)	Total Phosphorus (mg/L)
VTX	1	05/21/91	1	5	2	7.90	0.09	0.028
VTX	1	06/25/91	1	4	2	9.90	0.15	0.037
VTX	1	07/23/91	1	8	6	3.20	0.08	0.045
VTX	1	08/27/91	1	4	2	0.01	0.06	0.080
VTX	1	09/25/91	1	8	4	0.06	0.30	0.216
VTX	1	10/22/91	1	15	7	0.01	0.03	0.083
Site	1	Mean Surface		7	4	3.51	0.12	0.082
VTX	2	05/21/91	1	5	3	8.10	0.03	0.061
VTX	2	06/25/91	1	5	3	9.60	0.12	0.063
VTX	2	07/23/91	1	34	30	2.50	0.18	0.135
VTX	2	08/27/91	1	9	6	0.01	0.03	0.163
VTX	2	09/25/91	1	18	7	0.03	0.19	0.272
VTX	2	10/22/91	1	20	9	0.01	0.05	0.104
Site	2	Mean Surface		15	10	3.38	0.10	0.133
VTX	3	05/21/91	1	33	6	15.00	0.15	0.117
VTX	3	06/25/91	1	10	3	9.00	0.06	0.080
VTX	3	07/23/91	1	17	14	0.63	0.66	0.276
VTX	3	08/27/91	1	18	9	0.01	0.32	0.198
VTX	3	09/25/91	1	24	13	0.01	0.06	0.276
VTX	3	10/22/91	1	40	16	0.01	0.65	0.129
Site	3	Mean Surface		24	10	4.11	0.32	0.179
Date Mean		05/21/91		14	4	10.33	0.09	0.069
Date Mean		06/25/91		6	3	9.50	0.11	0.060
Date Mean		07/23/91		20	17	2.11	0.31	0.152
Date Mean		08/27/91		10	6	0.01	0.14	0.147
Date Mean		09/25/91		17	8	0.03	0.18	0.255
Date Mean		10/22/91		25	11	0.01	0.24	0.105
Lake Mean		Surface		15	8	3.67	0.18	0.131

LE-AQUA-NA - STEPHENSON COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
	Site 1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/10/91	22.0	16.0	6.0	32	33	35	6	6	6	1	1	1	1	1	1	0	0	0	1	1	1
05/28/91	22.0	16.0	6.0	56	61	53	6	6	6	1	1	1	1	1	3	0	0	4	2	2	3
06/10/91	22.0	16.0	9.0	6	24	60	5	4	3	0	0	0	4	3	2	0	0	0	1	2	4
06/25/91	22.0	16.0	6.0	36	27	26	6	6	6	1	1	2	3	3	4	2	2	3	3	3	4
07/10/91	22.0	16.0	6.0	11	11	11	4	4	4	1	1	1	4	4	4	1	2	3	2	2	3
07/24/91	22.0	16.0	6.0	15	14	14	7	7	7	1	1	1	3	3	3	2	2	2	1	1	3
08/12/91	22.0	16.0	6.0	26	22	22	7	7	7	1	1	1	1	1	1	0	0	1	0	0	2
08/26/91	22.0	16.0	6.0	27	26	21	6	6	6	1	1	1	2	2	2	0	0	1	1	1	3
09/11/91	22.0	16.0	6.0	20	21	20	6	6	6	1	1	1	2	2	2	1	1	2	1	1	3
09/23/91	22.0	16.0	6.0	16	15	15	7	7	7	1	1	1	1	1	2	0	0	1	1	1	2
10/11/91	22.0	16.0	6.0	17	17	17	8	8	8	1	1	1	1	1	1	0	0	0	0	0	1
10/23/91	22.0	16.0	6.0	27	27	28	8	8	8	1	1	1	1	1	1	0	0	0	1	1	2

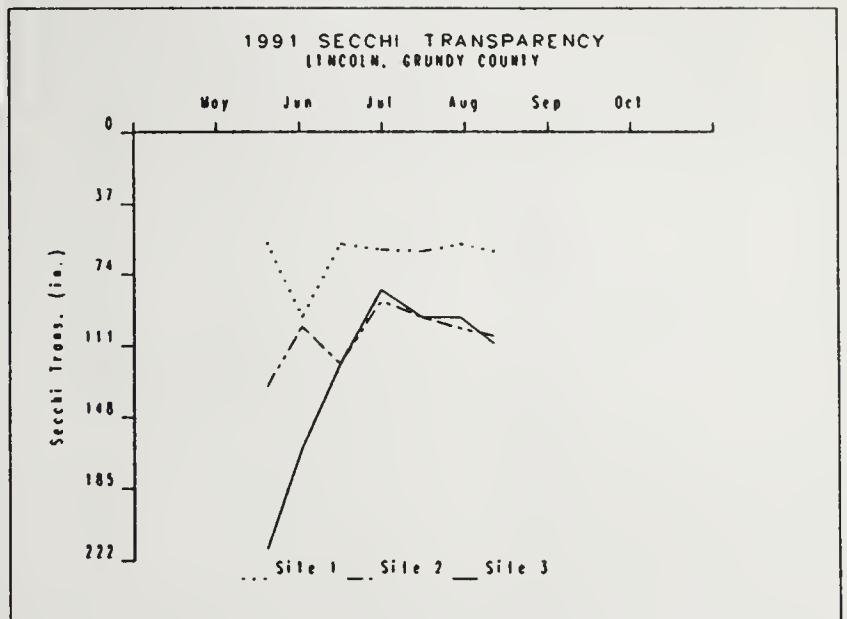
Minimum	22.0	16.0	6.0	6	11	11
Maximum	22.0	16.0	9.0	56	61	60
Average	22.0	16.0	6.3	24	25	27
Std Dev	0.0	0.0	0.9	13	13	15

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

## 1991 VOLUNTEER LAKE MONITORING DATA FOR LE-AQUA-NA, STEPHENSON COUNTY

Map Code	Site	Sample Date (MM/DD/YY)	Depth of Sample (Feet)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Nitrate/Nitrite Nitrogen (mg/L)	Ammonia/Ammonium Nitrogen (mg/L)	Total Phosphorus (mg/L)
RPA	1	05/28/91	1	7	2	1.80	0.22	0.068
RPA	1	06/25/91	1	7	6	1.60	0.51	0.150
RPA	1	07/24/91	1	22	12	0.23	0.35	0.250
RPA	1	08/26/91	1	3	2	0.01	0.03	0.125
RPA	1	09/23/91	1	20	8	0.04	0.41	0.272
RPA	1	10/23/91	1	5	3	0.20	0.73	0.148
Site	1	Mean Surface		11	6	0.65	0.37	0.169
RPA	2	05/28/91	1	1	1	1.80	0.18	0.061
RPA	2	06/25/91	1	14	12	1.50	0.20	0.210
RPA	2	07/24/91	1	14	7	0.21	0.38	0.231
RPA	2	08/26/91	1	4	3	0.01	0.04	0.123
RPA	2	09/23/91	1	21	7	0.04	0.32	0.245
RPA	2	10/23/91	1	8	3	0.19	0.74	0.152
Site	2	Mean Surface		10	6	0.63	0.31	0.170
RPA	3	05/28/91	1	3	2	1.90	0.16	0.084
RPA	3	06/25/91	1	12	11	1.50	0.31	0.180
RPA	3	07/24/91	1	8	5	0.21	0.40	0.229
RPA	3	08/26/91	1	2	2	0.01	0.04	0.130
RPA	3	09/23/91	1	19	8	0.05	0.30	0.230
RPA	3	10/23/91	1	9	3	0.22	0.60	0.130
Site	3	Mean Surface		9	5	0.65	0.30	0.164
Date Mean		05/28/91		4	2	1.83	0.19	0.071
Date Mean		06/25/91		11	10	1.53	0.34	0.180
Date Mean		07/24/91		15	8	0.22	0.38	0.237
Date Mean		08/26/91		3	2	0.01	0.04	0.126
Date Mean		09/23/91		20	8	0.04	0.34	0.249
Date Mean		10/23/91		7	3	0.20	0.69	0.143
Lake Mean		Surface		10	5	0.64	0.33	0.168

# LINCOLN - GRUNDY COUNTY



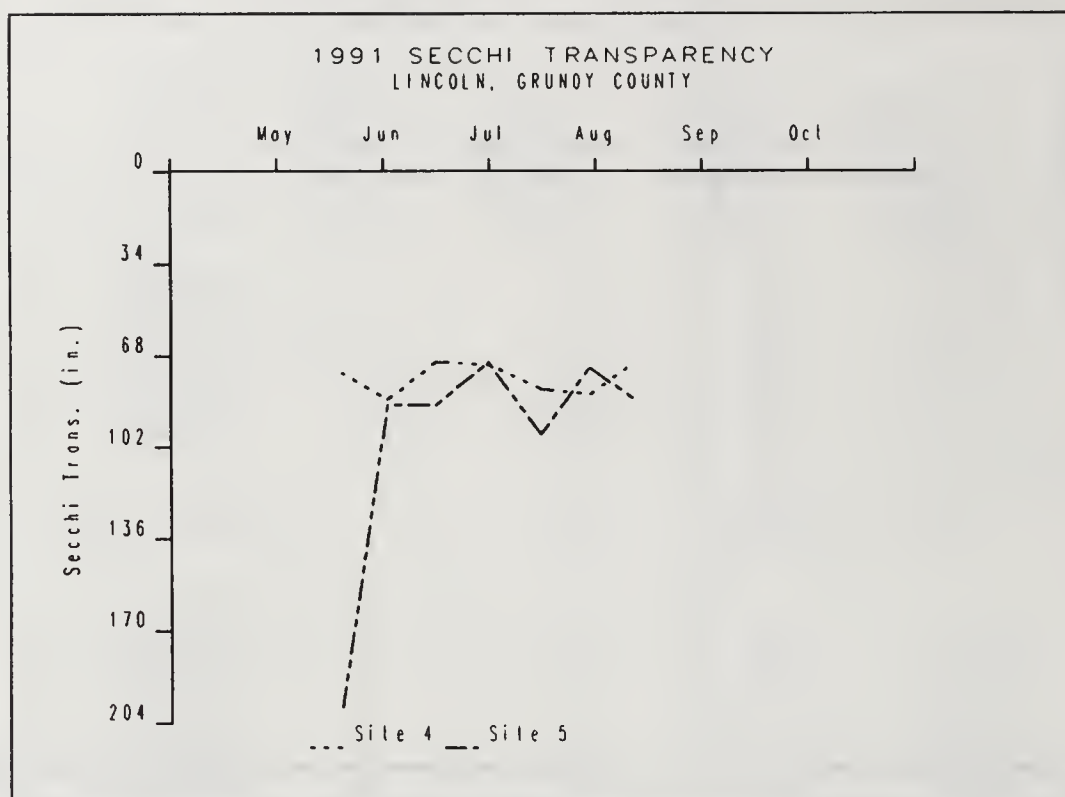
Date	Total Depth			Secchi Trans.			Water			Suspended			Suspended			Weeds			Weeds Near		
	Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
04/15/91	56.0	29.0	49.0	156	198	156	3	2	3	2	1	1	2	2	1	0	0	0	0	1	0
04/18/91	56.0	29.0	49.0	156	198	156	3	2	3	2	1	1	2	2	1	0	0	0	0	1	0
04/29/91	56.0	30.0	49.0	54	216	238	2	3	3	3	1	1	1	1	2	0	0	0	1	1	1
05/19/91	54.0	30.0	51.0	57	132	216	15	3	3	3	1	1	1	1	1	0	0	0	1	1	1
06/01/91	54.0	30.0	49.0	96	101	164	15	2	4	3	2	1	1	1	1	0	0	0	1	1	1
06/15/91	52.0	28.0	50.0	58	120	120	15	3	3	3	2	2	1	2	2	0	0	0	1	1	1
06/30/91	52.0	29.0	50.0	61	88	82	15	2	3	2	2	2	1	1	1	0	0	0	1	1	1
07/15/91	50.0	29.0	50.0	62	96	96	15	2	2	3	2	2	1	1	1	0	0	0	1	1	1
07/29/91	48.0	28.0	50.0	58	102	96	15	2	2	2	2	2	1	1	1	0	0	0	2	2	1
08/11/91	50.0	28.0	50.0	62	106	110	15	2	3	3	2	2	1	1	1	0	0	0	1	2	1

Minimum	48.0	28.0	49.0	57	88	82
Maximum	54.0	30.0	51.0	96	132	216
Average	51.4	28.9	50.0	65	106	126
Std Dev	2.2	0.9	0.6	14	15	48

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

# LINCOLN - GRUNDY COUNTY

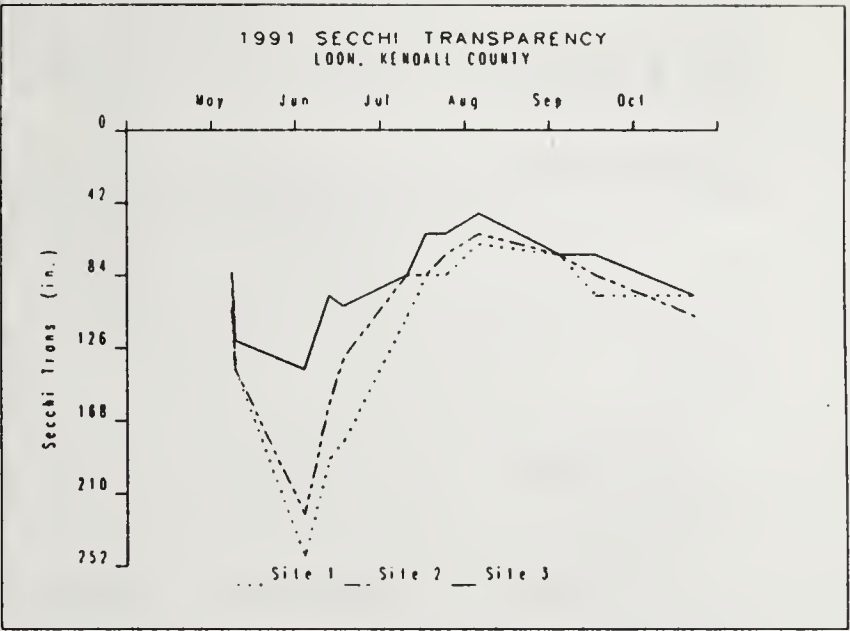
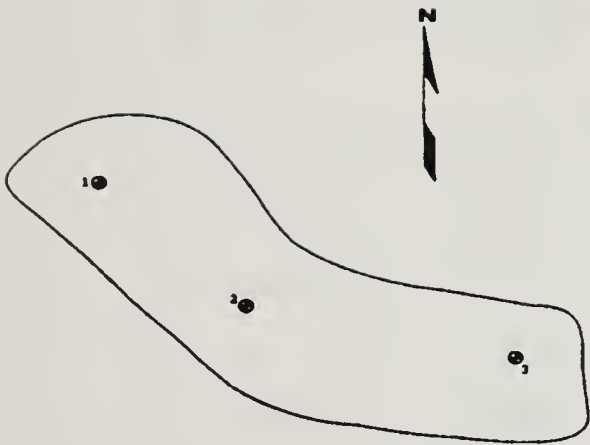


Date	To tal Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6	4	5	6
04/15/91	40.0	31.0		96	89		14			2	1		1			0	0		0	0	
04/18/91	40.0	31.0		96	89		14	13		3	1		1	2		0	0		0	0	
04/29/91	40.0	30.0		75	168		2	2		3	1		1	1		0	0		1	1	
05/19/91	40.0	31.0		74	198		15	3		3	1		1	2		0	0		1	1	
06/01/91	40.0	30.0		84	86		15	16		3	3		1	1		0	0		1	1	
06/15/91	42.0	30.0		70	86		16	4		3	2		1	2		0	0		1	1	
06/30/91	40.0	30.0		71	70		15			3	2		1			0	0		1	1	
07/15/91	40.0	30.0		80	97		15	3		3	2		1	1		0	0		1	1	
07/29/91	40.0	29.0		82	72		15	13		2	3		1	1		0	0		1	1	
08/11/91	40.0	29.0		70	84		15	13		3	2		1	1		0	0		1	1	
Minimum	40.0	29.0		70	70																
Maximum	42.0	31.0		84	198																
Average	40.3	29.9		76	99																
Std Dev	0.8	0.7		6	45																

Key	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
Color	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

LOON - KENDALL COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/08/91	19.5	18.5	13.5	82	103	82	4	4	4	0	0	0	0	0	0	0	0	0	1	1	1
05/09/91	20.0	18.0	12.0	138	138	122	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1
06/03/91	20.5	18.5	12.0	246B	222B	138	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2
06/12/91	19.5	19.0	13.5	190	157	96	2	2	2	0	0	0	0	0	0	0	0	0	1	1	1
06/17/91	20.0	18.0	12.0	180	132	102	1	1	1	0	0	0	0	0	0	0	0	0	0	1	2
07/10/91	20.0	18.0	12.0	108	84	84	2	2	2	0	0	0	1	1	1	0	0	0	0	0	1
07/17/91	20.0	18.0	11.0	84	84	60	2	2	2	0	0	0	1	1	1	0	0	0	0	0	1
07/24/91	20.0	18.0	12.0	84	72	60	2	2	2	0	0	0	1	1	1	0	0	0	0	0	1
08/05/91	20.0	18.0	12.5	66	60	48	2	2	2	0	0	0	1	1	1	0	0	0	0	0	1
09/03/91	20.0	18.0	12.0	72	72	72	2	2	2	0	0	0	0	0	1	0	0	0	0	0	1
09/16/91	20.0	17.0	11.0	96	84	72	1	1	2	0	0	0	0	0	1	0	0	0	0	0	1
10/22/91	18.0	18.0	11.5	96	108	96	2	2	2	0	0	0	0	0	1	0	0	0	0	0	0

Minimum 18.0 17.0 11.0 66 60 48  
Maximum 20.5 19.0 13.5 246 222 138  
Average 19.8 18.1 12.1 120 110 86  
Std Dev 0.6 0.5 0.8 57 46 26

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

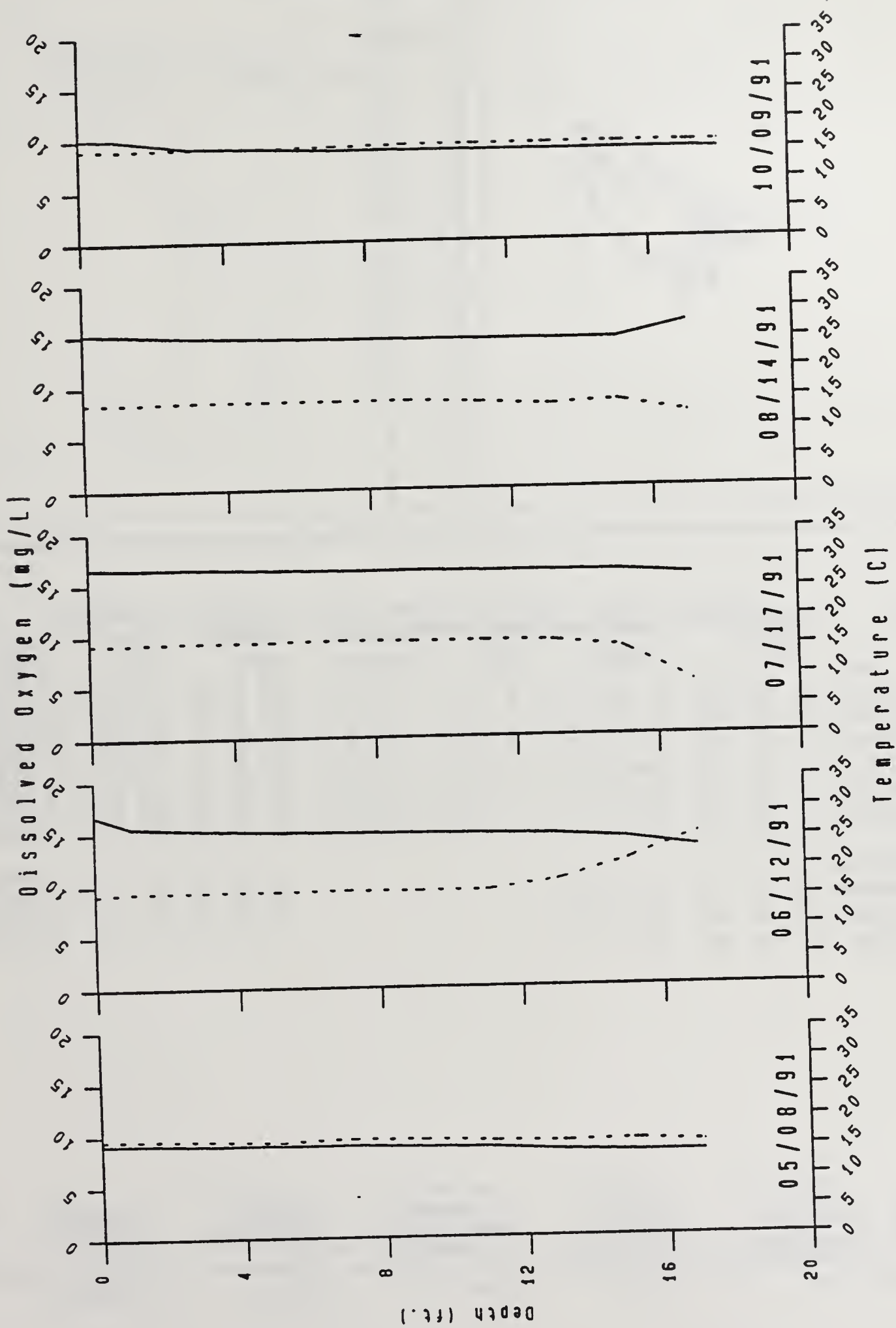
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

1991 AMBIENT LAKE MONITORING DATA FOR LOON (SILVER SPRING), KENDALL COUNTY

Map Code	Site	Sample Date	Depth of Sample (Feet)	Secchi Trans. (In.)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Turbidity (NTU)	Chlorophyll a (Corrected) (ug/L)	Nitrate Nitrogen (mg/L)	Ammonia/Ammonium Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Conductivity (umho/cm)	Total Alkalinity (mg/L as CaCO3)	Phenothal. Alkalinity (mg/L as CaCO3)	pH	Chemical Oxygen Demand (mg/L)	Dissolved Oxygen (mg/L)	Water Temp. (C)
VTP	1	05/08/91	1	82	4	4	3.2	0.67	2.80	0.07	0.30	0.006	0.004	561	246	0	7.8	3	9.6	16.0
VTP	1	06/12/91	1	190	1	1	0.7	.	2.50	0.03	0.20	0.001	0.001	530	224	0	8.1	5	9.3	27.3
VTP	1	07/17/91	1	81	1	1	0.8	3.92	2.00	0.05	0.30	0.007	0.007	538	218	0	8.2	4	9.2	28.9
VTP	1	08/14/91	1	54	8	3	2.8	.	1.70	0.07	0.40	0.008	0.004	543	236	0	8.3	8	8.4	26.4
Site	1	Mean Surface		102	4	2	1.9	2.29	2.25	0.06	0.30	0.006	0.004	543	231	0	8.1	5	9.1	24.7
VTP	1	05/08/91	17	.	6	4	2.5	.	2.70	0.05	0.30	0.008	0.001	661	248	10	8.3	5	9.0	14.2
VTP	1	06/12/91	17	.	1	1	0.9	.	2.10	0.05	0.30	0.017	0.007	548	236	0	8.1	6	14.6	23.3
VTP	1	07/17/91	17	.	4	4	0.6	.	2.00	0.06	0.40	0.009	0.006	560	246	0	7.8	6	5.1	27.3
VTP	1	08/14/91	17	.	8	4	3.3	.	1.80	0.09	0.50	0.016	0.003	560	254	0	8.3	8	7.1	27.7
Site	1	Mean Bottom		****	5	3	1.8	*****	2.15	0.06	0.38	0.013	0.005	582	246	3	8.1	6	8.9	23.1
VTP	2	05/08/91	1	103	3	3	3.8	0.76	2.80	0.05	0.30	0.003	0.005	561	248	2	8.3	5	9.7	15.9
VTP	2	06/12/91	1	157	1	1	0.8	.	2.40	0.03	0.30	0.007	0.004	534	224	0	8.2	7	9.4	27.6
VTP	2	07/17/91	1	72	3	3	0.7	4.27	2.00	0.04	0.30	0.007	0.006	529	220	4	8.2	4	9.1	29.1
VTP	2	08/14/91	1	48	5	3	2.2	.	1.70	0.04	0.40	0.002	.	546	238	0	8.3	12	8.3	26.5
Site	2	Mean Surface		95	3	3	1.9	2.51	2.23	0.04	0.33	0.005	0.005	543	232	2	8.3	7	9.1	24.8
VTP	3	05/08/91	1	82	4	4	2.4	0.76	2.80	0.05	0.40	0.006	0.001	561	250	4	8.3	3	9.5	15.8
VTP	3	06/12/91	1	96	1	1	1.0	.	2.50	0.03	0.30	0.004	0.004	531	226	0	8.2	5	9.3	28.4
VTP	3	07/17/91	1	63	4	4	0.9	3.12	2.00	0.03	0.30	0.007	0.003	533	240	4	8.2	6	9.2	29.1
VTP	3	08/14/91	1	48	5	3	2.7	.	1.60	0.04	0.40	0.007	0.003	544	244	0	8.3	10	8.3	26.7
Site	3	Mean Surface		72	4	3	1.8	1.94	2.23	0.04	0.35	0.006	0.003	542	240	2	8.3	6	9.1	25.0
Date Mean		05/08/91		89	4	4	3.1	0.73	2.80	0.06	0.33	0.006	0.003	561	248	2	8.1	4	9.6	15.9
Date Mean		06/12/91		148	1	1	0.8	*****	2.47	0.03	0.27	0.004	0.003	532	225	0	8.2	6	9.3	27.8
Date Mean		07/17/91		72	3	3	0.8	3.77	2.00	0.04	0.30	0.007	0.005	533	226	3	8.2	5	9.2	29.0
Date Mean		08/14/91		50	6	3	2.6	*****	1.67	0.05	0.40	0.006	0.004	544	239	0	8.3	10	8.3	26.5
Lake Mean		Surface		90	3	3	1.8	2.25	2.23	0.04	0.33	0.006	0.004	543	234	1	8.2	6	9.1	24.8

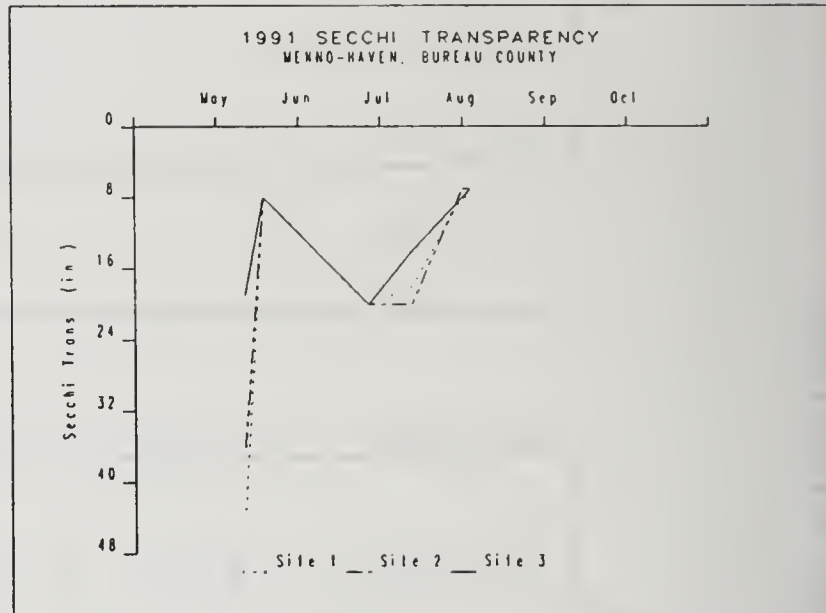
# Dissolved Oxygen and Temperature Profiles

LOONN. KENDALL



--- Dissolved Oxygen    — Temperature

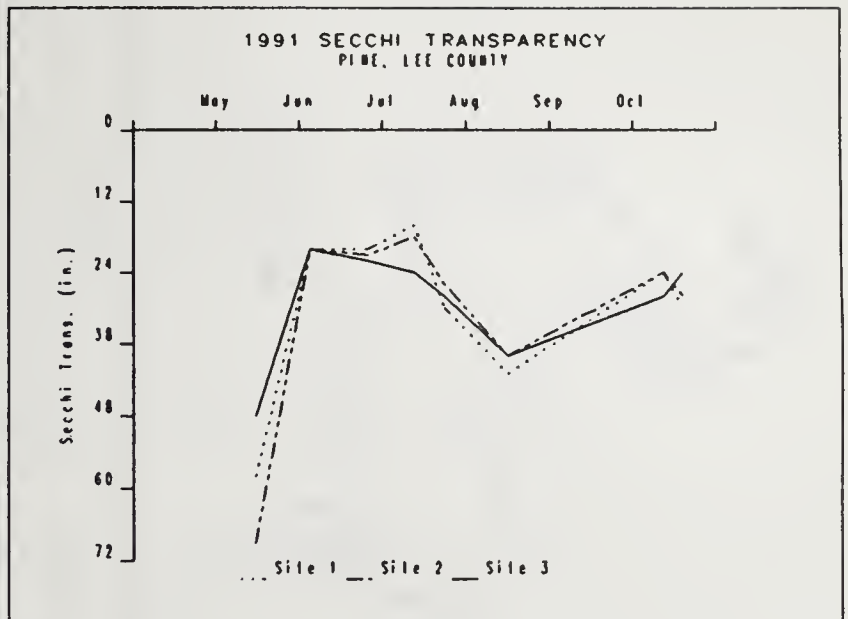
# MENNO-HAVEN - BUREAU COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/11/91	6.0	3.0	2.5	43	36B	19	7	6	2	2	2	1	2	2	1	0	1	1	3	2	3
05/18/91	6.5	3.0	2.5	8	8	8	9	9	9	3	3	3	1	1	1	0	0	1	2	3	3
06/26/91	6.0	3.5	3.0	20	20	20	3	3	3	3	3	3	3	3	3	0	1	1	2	4	4
07/12/91	6.0	3.0	3.0	18W	20W	14	13	13	13	3	3	4	3	3	4	1	1	1	3	3	3
07/31/91	5.5	2.5	3.0	8	7	8	4	4	4	0	0	0	4	4	4	0	1	1	2	4	4
08/03/91	5.5	2.5	3.0	8	7	7	4	6	6	0	0	0	4	4	4	0	2	2	2	3	3
Minimum	5.5	2.5	2.5	8	7	7															
Maximum	6.5	3.5	3.0	43	36	20															
Average	5.9	2.9	2.8	18	16	13															
Std Dev	0.4	0.4	0.3	14	11	6															

Key	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
Color	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

# PINE - LEE COUNTY



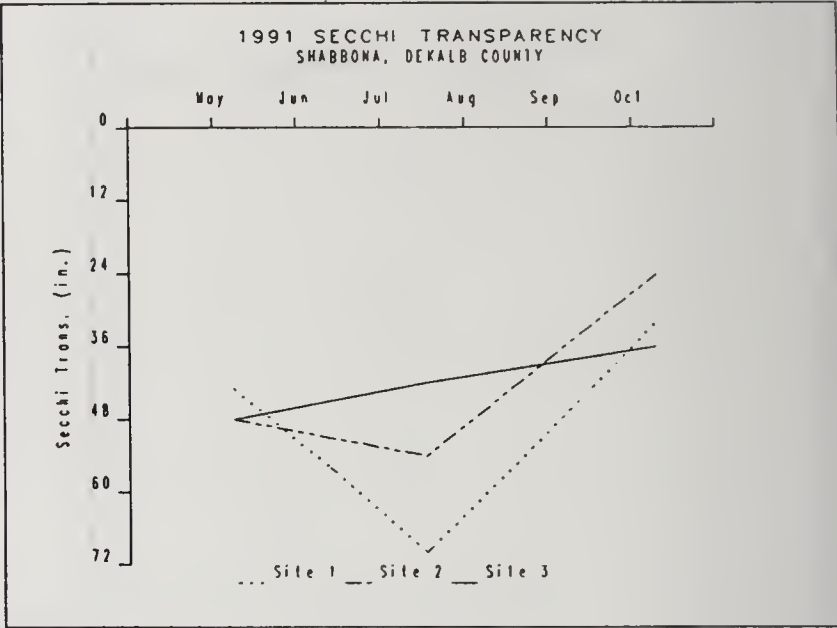
Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/15/91	9.0	6.5	7.0	58	69	48	6	6	6	1	1	1	0	0	0	0	0	0	0	0	0
06/04/91	14.0	6.0	6.5	20	20	20	10	10	10	4	4	4	0	0	0	0	0	0	1	0	0
06/25/91	9.5	4.5	4.0	20	21	22	4	4	4	1	1	1	4	4	4	0	0	0	0	0	0
07/12/91	12.0	6.0	6.0	16	18	24	5	5	5	1	1	1	3	3	3	0	0	0	1	1	1
07/23/91	9.0	6.5	6.5	30	26	28	6	6	6	2	2	2	3	3	3	0	0	0	0	0	0
08/15/91	12.5	6.0	5.5	41	38	38	13	13	13	2	2	2	1	1	1	0	0	1	1	1	1
10/11/91	12.0	6.5	6.0	24	24	28	9	9	9	4	4	4	1	1	1	0	0	0	1	1	1
10/18/91	11.0	7.0	6.0	30	28	24	10	10	10	4	4	4	2	2	2	0	0	0	0	0	0

Minimum	9.0	4.5	4.0	16	18	20
Maximum	14.0	7.0	7.0	58	69	48
Average	11.1	6.1	5.9	30	31	29
Std Dev	1.8	0.7	0.9	14	17	9

Key	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
Color	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

SHABBONA - DeKALB COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
	Site 1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/08/91	35.0	20.0	15.5	43	48	48	7	7	7	1	1	1	0	0	0	0	0	0	0	0	1
06/12/91	36.5	18.5	17.0	56	51		6	6	6	1	1	1	0	0	0	0	0	0	2	2	3
07/17/91	35.5	17.5	12.5	70	54	42	2	2	2	0	0	0	1	1	1	0	0	0	0	1	2
10/09/91	35.0	19.0	15.0	32	24	36	7	7	6	1	1	1	0	0	1	0	0	1	1	0	1
Minimum	35.0	17.5	12.5	32	24	36															
Maximum	36.5	20.0	17.0	70	54	48															
Average	35.5	18.8	15.0	50	44	42															
Std Dev	0.7	1.0	1.9	16	14	6															

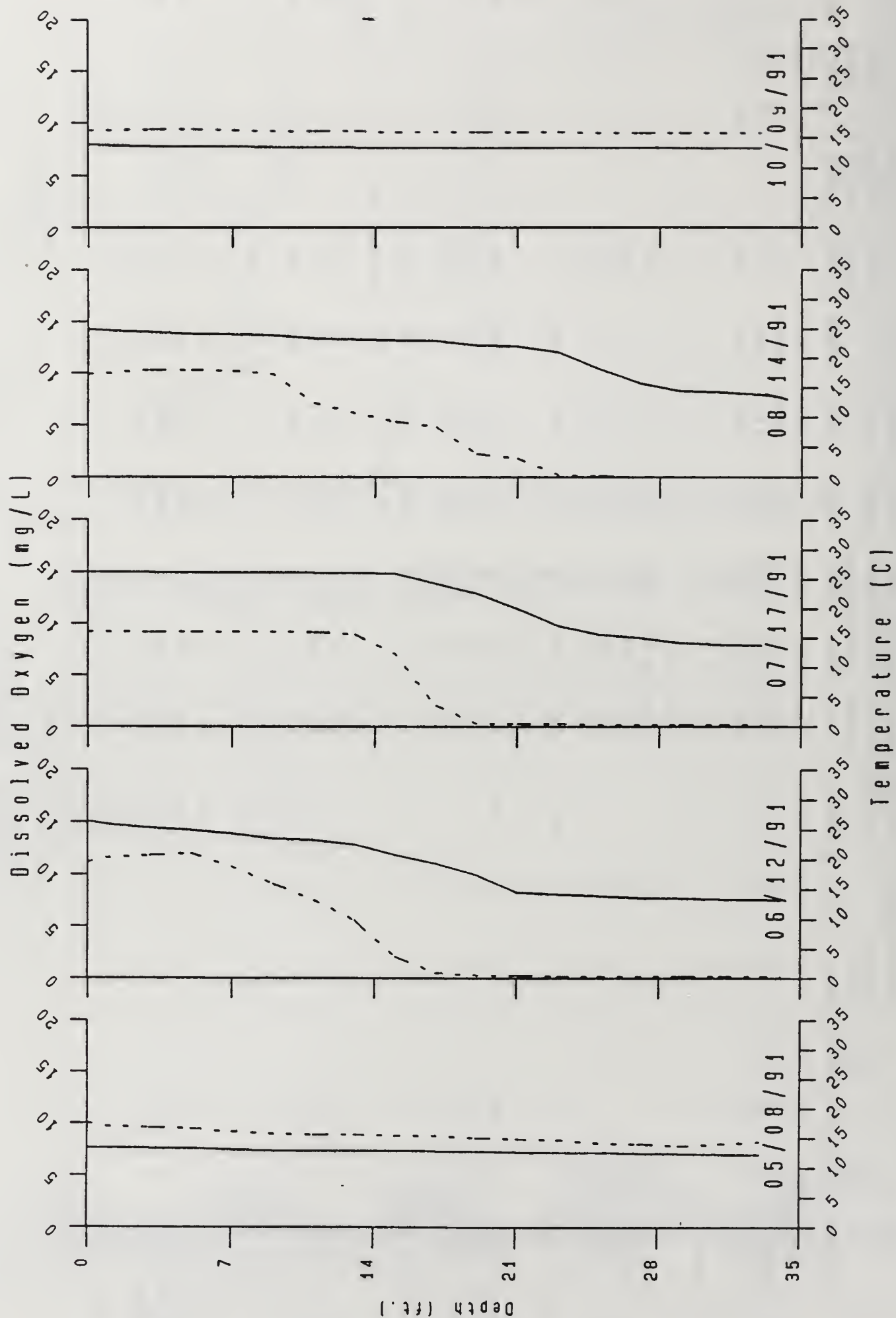
Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

1991 AMBIENT LAKE MONITORING DATA FOR SHABONA, DE KALB COUNTY

Map Code	Site	Sample Date	Depth of Sample (Feet)	Secchi Trans. (In.)	Total Suspended Solids (mg/L)	Volatlie Suspended Solids (mg/L)	Turbidity (NTU)	Chlorophyll a (Corrected) (ug/L)	Nitrate/ Nitrite Nitrogen (mg/L)	Ammonia/ Ammonium Nitrogen (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Phosphorus (mg/L)	Dissolved Phosphorus (mg/L)	Conduc- tivity (umho/cm)	Total Alkalinity (mg/L as CaCO3)	Phenothal. Alkalinity (mg/L as CaCO3)	pH	Chemical Oxygen Demand (mg/L)	Dissolved Oxygen (mg/L)	Water Temp. (C)
VTU	1	05/08/91	1	43	7	6	5.3	17.09	8.30	0.06	0.80	0.057	0.013	546	192	0	7.9	16	9.7	13.4
VTU	1	06/12/91	1	56	4	4	2.9	.	9.20	0.12	0.90	0.033	0.014	463	148	8	8.6	20	11.6	25.9
VTU	1	07/17/91	1	65	3	2	1.1	13.85	6.30	0.05	1.00	0.026	0.012	447	144	8	8.7	15	9.2	26.3
VTU	1	08/14/91	1	42	5	3	2.6	.	3.50	0.05	0.90	0.022	0.008	423	152	10	8.9	17	10.0	24.8
Site	1	Mean Surface		52	5	4	3.0	15.47	6.83	0.07	0.90	0.035	0.012	470	159	7	8.5	17	10.1	22.6
VTU	1	05/08/91	33	.	14	7	9.9	.	8.50	0.05	0.80	0.045	0.013	555	196	0	7.9	15	8.2	12.2
VTU	1	06/12/91	34	.	7	5	8.7	.	4.10	0.43	1.00	0.073	0.021	.	220	0	.	20	0.2	13.1
VTU	1	07/17/91	33	.	5	3	2.1	.	5.60	0.23	1.00	0.031	0.008	569	160	2	7.4	14	0.2	13.7
VTU	1	08/14/91	34	.	7	4	4.2	.	1.80	0.82	1.60	0.068	0.018	577	188	0	7.5	19	0.0	13.4
Site	1	Mean Bottom		....	8	5	6.2	.....	5.00	0.38	1.10	0.054	0.015	567	191	1	7.6	17	2.1	13.1
VTU	2	05/08/91	1	47	8	6	4.7	18.16	8.30	0.04	0.90	0.042	0.013	545	194	4	8.3	15	10.0	13.3
VTU	2	06/12/91	1	51	2	2	2.7	.	9.00	0.06	0.80	0.021	0.012	461	150	8	8.6	20	12.0	25.2
VTU	2	07/17/91	1	54	5	3	1.0	11.58	6.10	0.05	0.90	0.026	0.010	451	138	8	8.8	14	9.8	27.0
VTU	2	08/14/91	1	42	5	3	2.6	.	3.50	0.04	0.80	0.023	0.007	425	160	18	9.0	18	10.5	24.7
Site	2	Mean Surface		49	5	4	2.8	14.87	6.73	0.05	0.85	0.028	0.010	471	160	10	8.7	17	10.6	22.6
VTU	3	05/08/91	1	48	5	5	3.1	16.02	8.70	0.03	0.80	0.026	0.009	548	192	8	8.3	13	10.6	14.0
VTU	3	06/12/91	1	55	6	6	3.2	.	9.00	0.05	0.90	0.025	0.014	466	158	8	8.6	21	12.4	25.8
VTU	3	07/17/91	1	42	4	4	1.1	19.56	5.80	0.04	1.00	0.035	0.014	458	150	8	8.7	18	9.9	27.0
VTU	3	08/14/91	1	48	5	4	2.3	.	3.10	0.06	0.90	0.030	0.010	428	150	12	9.0	16	10.8	24.9
Site	3	Mean Surface		48	5	5	2.4	17.79	6.85	0.05	0.90	0.029	0.012	475	163	9	8.7	17	10.9	22.9
Date Mean		05/08/91		46	7	6	4.4	17.09	8.43	0.04	0.83	0.042	0.012	546	193	4	8.2	15	10.1	13.6
Date Mean		06/12/91		54	4	4	2.9	.....	9.07	0.08	0.87	0.026	0.013	463	152	8	8.6	20	12.0	25.6
Date Mean		07/17/91		54	4	3	1.1	15.00	6.07	0.05	0.97	0.029	0.012	452	144	8	8.7	16	9.6	26.8
Date Mean		08/14/91		44	5	3	2.5	.....	3.37	0.05	0.87	0.025	0.008	425	154	13	9.0	17	10.4	24.8
Lake Mean Surface				49	5	4	2.7	16.04	6.73	0.05	0.88	0.030	0.011	472	161	8	8.6	17	10.5	22.7

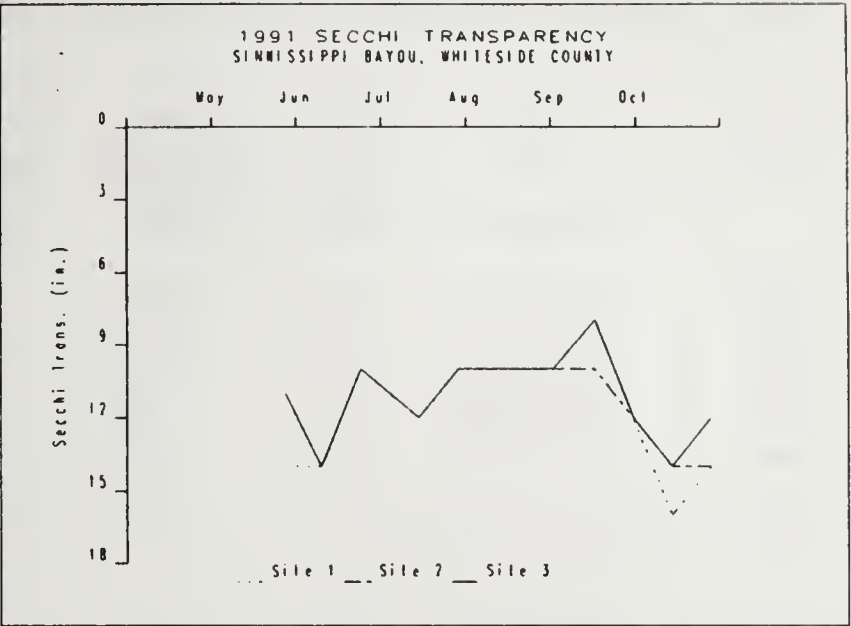
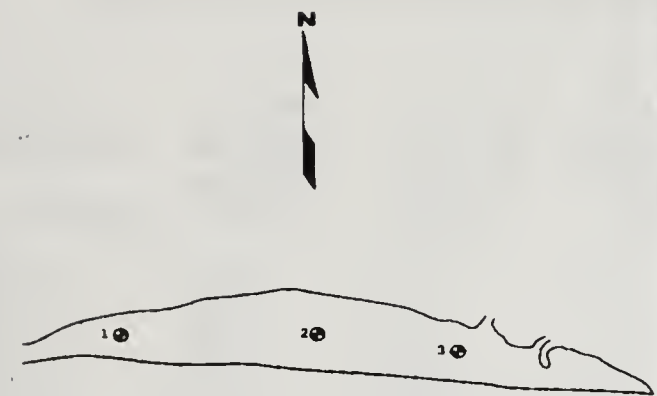
# Dissolved Oxygen and Temperature Profiles

SHABBONA, DE KALB



--- Dissolved Oxygen    \_\_\_ Temperature

SINNISSIPPI BAYOU - WHITESIDE COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
	Site 1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
04/28/91	4.5	4.5	2.5	14	14	14	3	3	3	0	0	0	2	2	2	0	0	0	0	0	0
05/27/91	4.5	5.0	2.5	14	11	11	4	4	4	0	1	2	2	2	2	0	0	1	0	0	1
06/09/91	4.5	5.0	2.5	14	14	14	3	3	3	0	0	1	2	2	2	0	0	2	0	0	1
06/23/91	4.0	4.5	2.0	10	10	10	4	4	4	0	0	1	3	3	3	0	1	3	0	0	2
07/14/91	4.5	5.0	2.5	12	12	12	4	4	4	0	0	0	3	3	3	0	1	3	0	0	2
07/28/91	4.0	5.0	2.5	10	10	10	4	4	4	0	0	0	3	3	3	0	1	4	0	0	2
08/11/91	4.0	5.0	2.5	10	10	10	4	4	4	1	1	1	3	3	3	0	1	4	0	0	2
08/31/91	4.0	4.5	2.0	10	10	10	4	4	4	0	0	2	3	3	3	0	2	4	1	1	3
09/15/91	4.0	4.5	2.5	10	10	8	4	4	6	2	2	3	4	4	4	0	3	4	0	0	3
09/29/91	4.5	4.5	3.0	12	12	12	4	4	4	1	0	1	3	3	3	0	2	4	0	0	3
10/13/91	4.0	4.5	2.0	16	14	14	4	4	4	1	1	1	3	3	3	0	1	4	0	0	2
10/27/91	4.0	4.5	2.0	14	14	12	3	3	3	2	2	3	3	3	3	0	1	3	0	0	2
Minimum	4.0	4.5	2.0	10	10	8															
Maximum	4.5	5.0	3.0	16	14	14															
Average	4.2	4.7	2.4	12	12	11															
Std Dev	0.3	0.3	0.3	2	2	2															

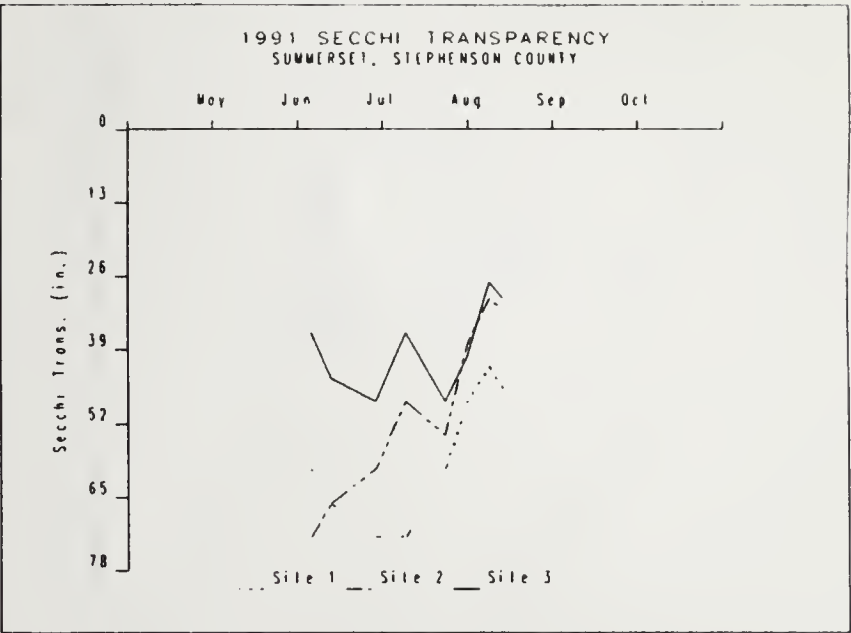
Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

## 1991 VOLUNTEER LAKE MONITORING DATA FOR SINNISSIPPI BAYOU, WHITESIDE COUNTY

Map Code	S i t e	Sample Date (MM/DD/YY)	Depth of Sample (Feet)	Total Suspended Solids (mg/L)	Volatile Suspended Solids (mg/L)	Nitrate/ Nitrite Nitrogen (mg/L)	Ammonia/ Ammonium Nitrogen (mg/L)	Total Phosphorus (mg/L)
RPG	1	05/27/91	1	33	12	2.00	0.01	0.226
RPG	1	06/23/91	1	54	22	0.45	0.28	0.331
RPG	1	07/28/91	1	22	12	0.01	0.06	0.544
RPG	1	08/27/91	1	30	16	0.01	0.14	0.441
RPG	1	09/29/91	1	18	5	0.01	0.05	0.193
RPG	1	10/13/91	1	96	34	0.36	0.03	0.187
Site	1	Mean Surface		42	17	0.47	0.10	0.320
RPG	3	05/27/91	1	26	12	1.70	0.01	0.287
RPG	3	06/23/91	1	82	27	1.00	0.44	0.333
RPG	3	07/28/91	1	27	15	0.01	0.07	0.656
RPG	3	08/27/91	1	92	32	0.04	0.20	0.527
RPG	3	09/29/91	1	58	14	0.10	0.11	0.193
RPG	3	10/13/91	1	53	16	0.10	0.03	0.179
Site	3	Mean Surface		56	19	0.49	0.14	0.363
Date Mean		05/27/91		30	12	1.85	0.01	0.257
Date Mean		06/23/91		68	25	0.72	0.36	0.332
Date Mean		07/28/91		25	14	0.01	0.07	0.600
Date Mean		08/27/91		61	24	0.03	0.17	0.484
Date Mean		09/29/91		38	10	0.06	0.08	0.193
Date Mean		10/13/91		75	25	0.23	0.03	0.183
Lake Mean		Surface		49	18	0.48	0.12	0.341

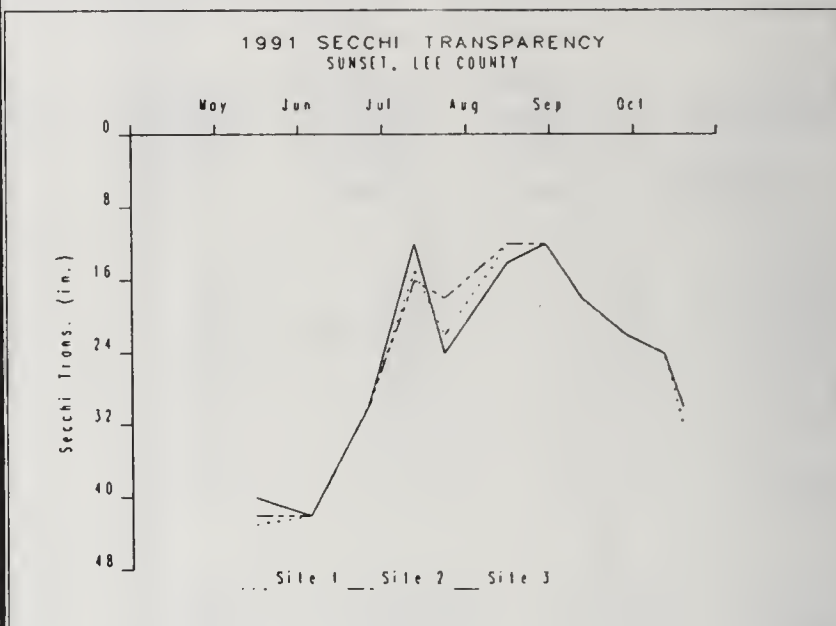
SUMMERSET - STEPHENSON COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
	Site 1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
06/05/91	27.0	25.0	12.0	60	72	36	4	6	7	1	2	3	2	3	3	0	0	0	1	1	1
06/12/91	27.0	25.0	24.0	66	66	44	3	3	3	0	0	0	2	2	2	0	0	0	0	2	2
06/28/91	26.0	26.0	15.0	72	60	48	2	2	2	0	0	0	0	0	0	0	0	0	1	1	1
07/09/91	30.0	22.0	14.0	72	48	36	2	2	2	0	0	0	0	0	0	0	1	1	2	2	2
07/23/91	28.0	27.0	26.0	60	54	48	2	2	2	0	0	0	0	0	0	1	1	1	2	2	2
07/31/91	25.0	20.0	14.0	48	38	40	2	2	2	0	0	0	0	0	0	0	0	0	2	2	2
08/08/91	34.0	25.0	15.0	42	30	27	2	2	2	1	1	1	0	0	0	0	0	0	2	2	2
08/13/91	25.0	25.0	15.0	46	32	30	2	2	2	0	0	0	0	0	0	0	0	0	2	2	2
Minimum	25.0	20.0	12.0	42	30	27															
Maximum	34.0	27.0	26.0	72	72	48															
Average	27.8	24.4	16.9	58	50	39															
Std Dev	3.0	2.3	5.1	12	16	8															

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial

# SUNSET - LEE COUNTY

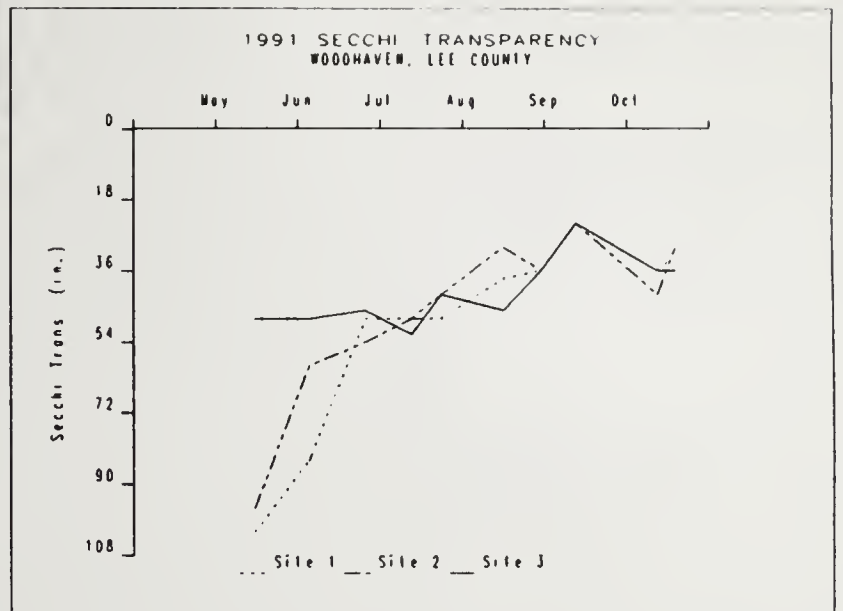


Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
Site	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/15/91	7.5	7.0	7.0	43	42	40	7	7	7	3	3	3	0	0	0	0	0	0	0	0	0
06/04/91	8.0	7.5	7.5	42	42	42	8	8	8	2	2	2	0	0	0	0	0	0	0	0	0
06/25/91	7.5	7.0	7.0	30	30	30	8	8	8	3	3	3	0	0	0	0	0	0	0	0	0
07/12/91	7.0	6.0	6.5	15	16	12	5	5	5	1	1	1	4	4	4	0	0	0	0	0	0
07/23/91	7.0	6.5	6.5	22	18	24	5	5	5	1	1	1	4	4	4	0	0	0	0	0	0
08/15/91	6.5	6.0	6.5	12	12	14	5	5	5	1	1	1	4	4	4	0	0	0	0	0	0
08/29/91	6.5	6.0	6.0	12	12	12	6	6	6	1	1	1	4	4	4	0	0	0	0	0	0
09/11/91	6.0	6.0	6.0	18	18	18	5	5	5	1	1	1	4	4	4	0	0	0	0	0	0
09/27/91	6.0	6.0	6.0	22	22	22	6	6	6	2	2	2	4	4	4	0	0	0	0	0	0
10/11/91	6.5	6.5	6.0	24	24	24	10	10	10	4	4	4	1	1	1	0	0	0	0	0	0
10/18/91	6.5	6.5	6.5	32	30	30	8	8	8	4	4	4	1	1	1	0	0	0	0	0	0
Minimum	6.0	6.0	6.0	12	12	12															
Maximum	8.0	7.5	7.5	43	42	42															
Average	6.8	6.5	6.5	25	24	24															
Std Dev	0.6	0.5	0.5	11	11	10															

Key	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
Color	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other

Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial
--------	----------	-------------	------------	--------------	-----------------

# WOODHAVEN - LEE COUNTY



Date	Total Depth (Feet)			Secchi Trans. (Inches)			Water Color			Suspended Sediment			Suspended Algae			Weeds at Site			Weeds Near Shore		
	Site 1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
05/15/91	13.0	13.0	4.0	102	96	48B	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0
06/04/91	7.0	7.5	4.5	84B	60	48W	8	8	8	1	1	1	0	0	0	0	2	2	2	2	3
06/25/91	9.5	6.5	7.5	48	54	46	7	7	7	2	2	2	2	2	2	1	3	2	2	3	3
07/12/91	11.0	4.5	6.5	48	48	52	2	2	2	1	1	1	1	1	1	0	0	1	1	1	1
07/23/91	12.0	8.0	6.0	48	42	42	7	8	8	2	3	3	1	1	1	0	0	0	0	0	0
08/15/91	7.0	10.0	7.5	38	30	46	8	8	8	3	3	3	1	1	1	0	0	1	2	1	2
08/29/91	12.0	7.0	7.5	36	36	36	2	2	2	1	1	1	2	2	2	0	0	1	1	1	2
09/11/91	11.0	6.0	6.0	24	24	24	6	6	6	2	2	2	3	3	3	0	0	0	0	1	2
10/11/91	11.0	7.0	4.0	36	42	36	2	2	2	1	1	1	1	1	1	0	0	2	0	1	2
10/18/91	11.0	6.5	3.5	32	30	36	2	2	2	1	1	1	3	3	3	2	2	2	2	2	2

Minimum	7.0	4.5	3.5	24	24	24
Maximum	13.0	13.0	7.5	102	96	52
Average	10.5	7.6	5.7	50	46	41
Std Dev	2.0	2.4	1.6	25	21	8

Key Color	1 - clear	4 - very green	7 - brownish green	10 - very brown	13 - yellowish
	2 - light green	5 - pea soup	8 - light brown	11 - milky chocolate	14 - grayish
	3 - moderately green	6 - greenish brown	9 - moderately brown	12 - tan	15 - other
Other:	0 - none	1 - minimal	2 - slight	3 - moderate	4 - substantial



<b>REPORT DOCUMENTATION PAGE</b>		1. REPORT NO. IEPA/WPC/92-110b	2.	3. Recipient's Accession No.
4. Title and Subtitle Volunteer Lake Monitoring, 1991 Volume II: Northwestern Illinois Region		5. Report Date July, 1992		
7. Author(s) Amy J. Burns		6.		
9. Performing Organization Name and Address Illinois Environmental Protection Agency Division of Water Pollution Control and Office of Community Relations 2200 Churchill Road, P.O. Box 19276 Springfield, IL 62794-9276		8. Performing Organization Rept. No. IEPA/WPC/92-110b		
12. Sponsoring Organization Name and Address Illinois Environmental Protection Agency Division of Water Pollution Control and Office of Community Relations 2200 Churchill Road, P.O. Box 19276 Springfield, IL 62794-9276		10. Project/Task/Work Unit No.		
15. Supplementary Notes		11. Contract(C) or Grant(G) No. (C) (G)		
		13. Type of Report & Period Covered Annual - 1991		
		14.		
16. Abstract (Limit: 200 words) <p>This report is Vol. II of a series of 7 reports summarizing Illinois EPA's 1991 Illinois Volunteer Lake Monitoring Program (VLMP). It provides a summary of 1991 VLMP lakes in Northwestern Illinois a program overview, volunteer participation, and a ranking of lakes on a regional basis.</p> <p>Thirty volunteers recorded total depth, Secchi disc transparency, and field observations for 20 lakes in Northwestern Illinois between May and October, 1991. Average transparencies ranged from 12-156 inches. Volunteer water quality samples were collected at 3 lakes once every month from May thru October and ambient lake data, collected by IEPA staff, is presented for 3 lakes.</p>				
17. Document Analysis a. Descriptors Lake Trophic Level Citizen Participation Water Quality Monitoring Volunteers				
b. Identifiers/Open-Ended Terms Illinois Lakes Volunteer Lake Monitoring Secchi Disc Transparency				
c. COSATI Field/Group				
18. Availability Statement Released unlimited, available from National Technical Information Service		19. Security Class (This Report) Unclassified		21. No. of Pages 37
		20. Security Class (This Page) Unclassified		22. Price





UNIVERSITY OF ILLINOIS-URBANA



3 0112 121957812